

CALENDAR
OF
DALHOUSIE COLLEGE
AND
UNIVERSITY,

HALIFAX, NOVA SCOTIA.

1888-89.



HALIFAX:
PRINTED FOR THE UNIVERSITY BY THE NOVA SCOTIA PRINTING COMPANY.
1888.

Dalhousie College and University.

HALIFAX, February 1st, 1888.

At a meeting of the Joint Committees of the Board of Governors, the Professors and the Alumni Association of Dalhousie College, it was decided to celebrate the opening of the new building by holding a Conversazione; and it was resolved to invite the lady friends of the College to co-operate in carrying out the intentions of the Committee. In accordance with this resolution, you are invited to attend a meeting of ladies at the College, on Monday the sixth day of February instant, at four o'clock in the afternoon.

Entrance at the north-east door.

Yours, very sincerely,

JOHN FORREST,

Chairman.

H. W. C. BOAK,

Secretary.

*Celebration
Committee.*

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UNIVERSITY CALENDAR

COLLEGE OF DALHOUSIE

NOTICES.

The more important changes in this Calendar will be found in §§ I, II, IV, VII, VIII, IX, X, XI, XIII, XIV, XVII, XXI, XXII, XXIII, XXV, XXVII, XXVIII, XXXIV, XXXV, XXXVI, XXXVII, XXXVIII, XXXIX, XL, XII, XIII.

Announcements in regard to the course in Election will be made at the beginning of the Session.

Copies of this Calendar, with the Examination Papers set in the session of 1887-8, may be obtained, at twenty-five cents each, from H. W. Barnes, Esq., Nova Scotia Printing Company, Halifax, N. S.

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University Almanac, 1888-89,

1888-89.

- Aug. 29. Tu.—Last day for receiving notices of Supplementary and Matriculation Examinations (Law Faculty).
- Sept. 1. Tu.—Session (Law Faculty) begins. Matriculation and Supplementary Examinations (Law Faculty).
6. " "—Registration and payment of class fees (Law Faculty).
8. " "—Meeting of Law Faculty, 4 p. m.
7. Th.—Meeting of Faculty, 11 a. m.
7. Th.—Meeting of Faculty of Arts, II a. m.—Meeting of Faculty of Law, 4 p. m.
12. Tu.—2 p. m.—Registrations of Candidates for Matriculation and Bursary Examinations.
12. W.—Session (Arts Faculty) begins—Examinations for Senior and Junior Minot Exhibitions and Bursaries, and for 1st and 2nd Years Extrication (Arts Faculty), begin:
- 9.30 a. m., Latin.
 - 3 p. m., Greek.
13. Th.—10 a. m., Mathematics.
13. Th.—3 p. m., ditto.
14. F.—10 a. m., English.
14. F.—2 p. m., ditto.
15. Sa.—10 a. m., Chemistry and Natural Philosophy.
- 3 p. m., Elementary Mechanics and Botany.
17. M.—10 a. m., French and German.
17. Tu.—Supplementary Examinations (Arts Faculty) begin, 10 a. m.
18. Tu.—Meeting of the Faculty of Arts, 10 a. m.
21. F.—Supplementary Examination (Arts Faculty) continues, 10 a. m.—Matriculation, Registration, and Issue of Gymnasium Tickets, 2 p. m.
24. M.—Class Tickets (Arts Faculty) issued, 10 a. m.—Meeting of Faculty of Law, 4 p. m.
25. Tu.—Convocation, 2 p. m.—Opening address by Hon. S. L. Shattuck, D. C. L., Q. C.
26. W.—Lectures begin. Last day for receiving applications for Medical Matriculation Examination.
- Oct. 8. M.—Meeting of convocation.
9. Tu.—Registration of candidates for Medical Matriculation Examination.
10. W.—Final Matriculation Examinations (Arts Faculty) and Preliminary (Medical) Examinations in General Education begin:
- 2 p. m., English.
 - 11. Th.—2 p. m., Classics and Modern Languages.
 - 12. F.—2 p. m., Mathematics.
 - 13. Sa—10 a. m., Chemistry.
 - 14. Tu.—Meeting of Faculty of Arts, 1 p. m.
 - 15. Th.—Meeting of Faculty of Arts, 4 p. m.
 - 16. F.—Return to residence, &c., to be made on or before this day.
 - 22. M.—Session (Medical Faculty) begins.
- Nov. 1. Th.—Meeting of Faculty of Law, 4 p. m.
- Thanksgiving Day,—no lectures.
- Day after Thanksgiving Day,—no lectures.
- Dec. 6. Tu.—Meeting of the Faculty of Law, 4 p. m.
21. F.—No Lectures. Christmas Vacation begins.

1860.

- Jan. 2. Th.—Meeting of Governors.
 5. M.—Lectures resumed.
 18. Th.—Meeting of Faculty of Law, 4 P. M.
- Feb. 1. F.—George Mavor Day.—No lectures.
 4. M.—Meeting of the Senate, 4 P. M.
 7. Th.—Meeting of the Faculty of Law, 4 P. M.
 F.—Last day of Lectures (Law Faculty).
 18. M.—Seasonal Examinations (Law Faculty) begin.
- Mar. 3. E.—Last day for receiving M. A. Theses.
 6. W.—Arch Wednesday. No lectures.
 13. M.—Meeting of Senate, 4 P. M.
 20. F.—Last day of Lectures (Arts Faculty).—Meeting of Faculty of Arts,
 4 P. M.
- April 1. M.—Meeting of Governors.
 3. V.—Seasonal Examinations (Arts Faculty) begin:
 10 A. M., Latin
 3 P. M., Practical Physics.
 4. Th.—10 A. M., French.
 3 P. M., Botany, Hon. English.
 5. F.—10 A. M., Ethics, Addl. Latin (1st and 2d year), Hon. Greek,
 Hon. Math., Hon. Exp. Phys., Hon. Phil.
 * 3 P. M., Addl. Latin (3d and 4th year).
 6. M.—10 A. M., Mathematics, Physics (3d and 4th year).
 3 P. M., History (3d year), Hon. Latin, Hon. Chemistry, Hon.
 History.
 7. Th.—10 A. M., Logic, Hon. Greek, Hon. Math. Phys., Hon. Exp. Phys.,
 Hon. Phil.
 3 P. M., Organic Chemistry, English (1st year), Hon. English.
 10. W.—10 A. M., English (2nd, 3rd and 4th years).
 3 P. M., German.
11. Th.—10 A. M., Greek, Hon. Math., Hon. Phil., Hon. Hist., Hon. Chem.
 12. F.—10 A. M., Inorganic Chemistry, History (4th year).
 3 P. M., Metaphysics, Pure Chemistry, Addl. Greek (1st and 2d
 years), Hon. Latin.
13. M.—10 A. M., Mathematics, Dynamics, Political Economy, Hon. Exp.
 Phys.
 3 P. M., Addl. Greek (3d and 4th year), Hon. Phil., Hon. Hist.
 15. Tu.—10 A. M., Addl. Mathematics, Addl. Physics and Dynamics, Hon.
 Greek.
 3 P. M., Addl. English, Hon. English.
 16. —Last day for returning books to the Library.
 17. W.—10 A. M., Hon. Latin, Hon. Math., Hon. Phil., Hon. Chem.
 18. F.—Good Friday.
20. Sa.—Meeting of the Faculty of Arts, 10 A. M.
22. Tu.—Meeting of the Senate, 10 A. M.—Results of Seasonal Examinations
 declared.
23. Th.—3 P. M., Convocation.

HISTORICAL SKETCH.

DALHOUSIE COLLEGE was founded by the Earl of Dalhousie in 1821, "for the education of youth in the higher branches of science and literature."

The original endowment was derived from funds collected at the port of Charlottetown in 1814 during its occupation by Sir John C. Sherbrooke, then Lieutenant-Governor of Nova Scotia. These funds the British Government authorized the Earl of Dalhousie, Sir John's successor, to expend "in deferring the expenses of any improvement which it might soon expedient to undertake in the province"; and the Earl, believing that "a Seminary for the higher branches of education is much needed in Halifax—the seat of the Legislature—of the courts of justice—of the military and mercantile Society," decided upon "founding a College or Academy on the same plan and principle of that at Edinburgh," "open to all occupations and sects of religion, restricted to such branches only as are applicable to our present state, and having the power to expand with the growth and improvement of our society."

The original Board of Governors consisted of the Governor-General of British North America, the Lieutenant-Governor of Nova Scotia, the Bishop, the Chief Justice and President of Council, the Provincial Treasurer and the Speaker of the House of Assembly.

After unsuccessful efforts on the part of both the British Government and the Board of Governors to effect a union with King's College, the only other then existing in the Province, this College went into incorporation in 1838, under the Presidency of the Rev. Thomas McCulloch, D. D., and with a staff of three Professors.

By an Act passed in 1861, University powers were conferred on the College, and the appointment of the Governors was vested in the Lieutenant-Governor and Council.

In 1843, President McCulloch died, and in 1845 the College was closed, the Governors considering it "advisable to allow the funds of the institution to accumulate."

In 1848, an Act was passed authorizing the Lieutenant-Governor and Council to appoint a new board of Governors "to take such steps for rendering the institution useful and efficient as to His Excellency may seem fit." This Board, from 1849 to 1859, employed the funds of the University to support a High School.

In 1859, the Arts department of the Gorham College, Liverpool, N. S., was transferred to this College, "with a view to the furtherance of the establishment of a Provincial University," and an attempt was made to conduct the Institution as a University, in pursuance of the Act of 1841. This union, however, came to an end in 1857.

In 1833, the College was re-organized under the following Act:—

An Act for the Regulation and Support of Dalhousie College.

(Passed the 20th day of April, A. D., 1833.)

WHEREAS, it is expedient to extend the basis on which the said College is established, and to alter the constitution thereof, so as the benefits that may be fairly expected from its invested capital and its central position may, if possible, be realized, and the design of its original founders, as nearly as may be, carried out.

Be it enacted by the Governor, Council, and Assembly as follows:—

1. The Board of Governors now appointed, consisting of the Honorable William Young, the Honorable Joseph Howe, Charles Tupper, S. Leonard Sharpen, John W. Hiltch, and James F. Avery, Esquires, shall be a body politic and corporate, by the name and style of the Governors of Dalhousie College, at Halifax, and shall have and exercise all usual powers and authorities as such, and have the title, control and disposition of the building on the Parade, at Halifax, and of the property and funds belonging to the said College, and held for the use thereof by the present Governors; and all vacancies at the Board shall be filled up on recommendation of the remaining members thereof by the Governor-in-Council; and any of the Governors shall be removable by the Governor-in-Council, at the instance of the Board of Governors.

2. Whenever any body of Christians, of any religious persuasion whatsoever, shall satisfy the Board that they are in a position to endow and support one or more chairs or professorships in the said College, for any branch of literature or science, approved of by the Board, such body in making such endowment, to the extent of twelve hundred dollars a year, shall have a right, from time to time, for every chair endowed, to nominate a Governor to take his seat at the Board, with the approval of the Board of Governors and of the Governor-in-Council, and shall also have a right, from time to time, to nominate a Professor for such chair, subject to the approval of the Board of Governors; and in the event of the death, removal, or resignation of any person nominated under this section, the body nominating shall have power to supply the vacancy thus created.

3. The same right of nominating a Professor from time to time shall belong to any individual or number of individuals, who shall endow or to the same extent and support a chair or professorship, and to the possessive of any testator by whom will a chair or professorship may be endowed.

4. The Governors shall have power to appoint and to determine the duties and salaries of the President, Professors, Lecturers, Tutors, and other officers of the College, and from time to time to make statutes and bye-laws for the regulation and management thereof, and shall assemble together as often as they shall think fit, and upon such notice as to them shall seem meet, and for the execution of the trust hereby reposed in them.

5. The said College shall be deemed and taken to be a University, with all the usual and necessary privileges of such institutions; and the students shall have liberty and faculty of taking the degrees of bachelor, master, and doctor, in the several arts and faculties at the appointed times; and shall have liberty within themselves of performing all scholastic exercises for the conferring of such degrees, and in such manner as shall be directed by the statutes and bye-laws.

6. No religious tests or subscriptions shall be required of the professors, scholars, graduates, students, or officers of the College.

7. The internal regulation of the said College shall be committed to the Senatea Academica, formed by the respective chairs or professorships thereof, subject in all cases to the approval of the Governors.

8. The Legislature shall have power, from time to time, to modify and control the powers conferred by this Act.

9. The Acts heretofore passed in relation to Dalhousie College are hereby repealed, except the Act passed in the fourth year of his late Majesty King George the Fourth, entitled, "An Act authorizing the lending of a sum of money to the Governors of Dalhousie College, and for securing the repayment thereof."

This Act was afterwards amended by the following Acts:—

An Act to Amend the Act for the Regulation and Support of Dalhousie College,

(Passed the 6th day of May, A. D., 1851.)

Be it enacted by the Governor, Council, and Assembly, as follows:—

1. The present Board of Governors, consisting of nine persons, shall be increased to a number not exceeding fifteen; and the Board shall be filled up by new nominations made on the same principle as set forth in the first section of the Act hereby amended; and any of the Governors shall be removable, as heretofore, by the Governor-in-Council.

2. The Governors shall have power to affiliate to Dalhousie College any other Colleges desirous of such affiliation, or any schools in arts, in theology, in law, or in medicine, and to make statutes for such affiliations, and for the regulation and management thereof, on the same principles as obtain in other Universities, and to vary and amend such statutes from time to time. Provided always, that such statutes of affiliation, before they go into effect, shall be submitted to and receive the sanction of the Governor-in-Council.

3. So much of chapter 24 of the Acts of 1803, entitled, "An Act for the Regulation and Support of Dalhousie College," or of any other Act, as is inconsistent with this Act, is repealed.

An Act to provide for the Organisation of a Law Faculty in connection with Dalhousie College, and for other purposes.

(Passed the 14th day of April, A.D., 1881.)

Be it enacted by the Governor, Council, and Assembly, as follows:—

1. The Governors of Dalhousie College at Halifax, shall, in addition to the powers conferred on them by section 2 of chapter 27 of the Acts of 1875, entitled, "An Act to Amend the Act for the Regulation and Support of Dalhousie College," have power to organize a Faculty of Law in connection with such College; and to appoint professors or lecturers in law, and out of the revenues of the College to provide for the maintenance and support of such Faculty, and to make rules for the regulation and management of such Faculty, and for the granting of degrees in law on the same principles as obtain in other universities, and to vary and amend such rules from time to time.

2. Section 3 of chapter 24 of the Acts of 1863, entitled, "An Act for the regulation and support of Dalhousie College," is amended by adding the words "and governor" after the word "professor" in the said section, and any individual who has hitherto endowed a chair or chairs in the College shall have a right to nominate a governor for each chair endowed, in the same way as if section 3 aforesaid had been originally passed as now amended.

3. Section 1 of the said chapter 27 of the Acts of 1875, is amended by adding the words "provided, however, that in the event of any body of Christians, individual, or number of individuals, endowing and supporting one or more chairs or professorships in the said College, as provided by sections 2 and 3 of the Act hereby amended, and of such body of Christians or individuals nominating a professor or governor by virtue thereof, the number of Governors may be increased beyond fifteen, but such increase shall be limited to the number of such chairs or professorships as may after the passing of this Act be founded by virtue of the said sections 2 and 3."

In pursuance of the Act of 1863, the Presbyterian Church of the Lower Province closed their College, and agreed to support two chairs in this University; The Synod of the Maritime Provinces in connection with the Church of Scotland founded one chair; and the College opened in that year, under the Principalship of Rev. James Ross, D.D., and with an Arts Faculty of six Professors.

In 1868, a Faculty of Medicine was organized, which in 1875 developed into the Halifax Medical College. In 1883 the Faculty was re-organized, and the Halifax Medical College affiliated.

In 1883 a Faculty of Law was added.

In 1878, GEORGE MUNRO, Esq., of New York, a native of this Province, placed in the hands of the Governors the funds necessary for the endowment of a Professorship of Physics. In 1881, he established a Professorship of History and Political Economy. In 1882, he founded a chair of English Language and Literature. In 1883, he added to the staff of the College a Professor of Constitutional and International Law, and Tutors in Classes and Mathematics. In 1884, he founded a Professorship of Metaphysics. Since 1880, he has provided the University with Exhibitions and Bursaries, to the amount of \$16,215.44, which, according to his own desire, have been so offered for competition as to stimulate to greater activity and efficiency the High Schools and Academies of Nova Scotia and the neighboring Provinces.

The Governors desire to place on permanent record their high sense of Mr. Munro's enlightened public spirit, and their gratitude to him for the munificent manner in which he has come to their help in the work of building up an universities in Nova Scotia.

To connect the donor's name for all time with the benefits thus conferred both on the University and on his native country, the chairs which he has founded shall be called the GEORGE MUNRO CHAIRS OF PHYSICS, OF HISTORY AND POLITICAL ECONOMY, OF ENGLISH LANGUAGE AND LITERATURE, OF CONSTITUTIONAL AND INTERNATIONAL LAW, and of METAPHYSICS respectively.

In 1883, ALEXANDER MCLOD, Esq., of Halifax, bequeathed to the University the residue of his estate. The following is an extract from his will:—

"All the residue of my Estate I give and bequeath to the Governors of Dalhousie College or University in the City of Halifax in

Trust, that the same shall be invested and form a fund to be called the McLeod University Fund, and the interest and income of which shall be applied to the endowment of three or more professorial chairs in said College, as they may deem proper; but this bequest is made upon these conditions, namely, that if at any time the said College or University should cease to exist, or be closed for two years, or be made a sectarian college, then and in any such case the said Fund and all accumulations thereto shall be given to the said Synod of the Maritime Provinces of the Presbyterian Church in Canada, to be used for the purposes of higher education in connection with said Synod, and it is further stipulated that no part of this Fund shall ever be used, either by said Governors of Dalhousie College or by the said Synod, as a collateral security under any circumstances whatever."

According to the provisions of the will, the MCLEOD CHAIRS OF CLASSICS, CHEMISTRY and MODERN LANGUAGES were founded.

In 1886, SIR WILLIAM YOUNG, one of the oldest and best friends of the College, subscribed \$20,000 to start a Building Fund. In 1887, Sir William Young bequeathed to the University half the residue of his estate, together with a Prize Fund of \$4000, and the amount remaining unpaid to his executors to the New Building. The following are extracts from his will:—

"I bequeath to the Governors of Dalhousie College at Halifax, the sum of \$4000 to be kept continually invested by them, and that they shall apply the income derived therefrom in founding and maintaining a prize of a gold medal of the value of \$250, to be called Sir William Young's medal, and to be annually awarded for scholastic eminence, and to have the recipient's name engraved thereon, with the year of his attendance at College, and in founding and maintaining such other prizes for distribution among the students of said College as the Governors may from time to time approve."

"Having agreed and promised to the Governors of Dalhousie College to pay them the sum of \$20,000 to aid in the erection of their building now in progress, I direct my executors to pay the said sum from time to time as it may be required by the said Governors."

"All the rest and residue of my estate I direct my executors to divide into two even and equal parts or shares, and to pay over one such part or share to * * * * and the other part or share to the Governors of Dalhousie College at Halifax, for the general purposes of said College."

"In the event of my having paid to Dalhousie College during my life-time any part of said sum of \$20,000 hereinbefore mentioned, as agreed to be paid to them to aid in the erection of the college buildings, I do direct my executors to pay to said Governors the balance only, if any, that may be due on said sum at the time of my decease."

Clause 15, of the Will of DR. J. F. AVERY, provides as follows:—
"I give and bequeath the sum of \$500 to Dalhousie College in the City of Halifax, to be at the disposal of the Senate of the said College, and the interest thereof to be appropriated for an annual prize."

The following donations have been made to the Endowment Fund:—
Hon. Sir Wm. Young, W. J. Stairs, Esq., Hon. Stailey Brown, John Gibson, Esq., John P. Mett, Esq., Wm. P. West, Esq., Thos.

A. Ritchie, Esq., and Hon. Robt. Bock, \$1000 each; Adam Burns, Esq., Peter Jack, Esq., Hon. Jeremiah Northrop, Prof. Lawson and Alex. McLeod, Esq., \$500 each.

The following subscriptions have been made to the Building Fund:

Rev. Louis H. Jenkins, \$1000; John Dossi, John S. McLean, R. Sedgwick, \$750 each; Thomas Bayne, John McNab, Adam Burns, Hon. R. Bock, Dr. Avery, \$500 each; President Forrest, \$350; James Forrest, \$300; Prof. John Johnson, Peter Jack, William Miller, Prof. McDowell, \$250 each; Prof. McGregor, A. & W. Mackinlay, \$225 each; Prof. Alexander, Wallace Graham, \$200 each; James Scott, Rev. John Henry, Dr. Avery, Wm. Robertson, J. C. MacIntosh, H. McD. Henry, John Y. Paynter, Pearson, Morrison & Forbes, \$150 each; J. G. Stewart, \$120; Rev. E. Scott, Peter Ross, H. W. C. Books, Fiction Academy, \$100 each; Wm. B. Wallace, Arthur Drysdale, E. Newswall, Alfred Costley, H. W. Barnes, Hugh MacKenzie, \$75 each; W. C. Silver, Graham Fraser, \$50 each; E. McKay, \$30; J. M. Stewart, \$25; Rev. A. Falconer, \$20; J. H. Sinclair, Dr. J. Stewart, \$10 each. In all \$1069.

The following donations have been made from time to time to meet current expenses:

Hon. Sir Wm. Young, \$500; John Dossi, Esq., \$400; J. S. Maclean, Esq., \$300; J. F. Avery, Esq., M. D., S. Fleming, Esq., C. M. Ross, Rev. Principal Grant, D. D., W. J. Stairs, Esq., Tiss. Bayne, Esq., John Gibson, Esq., Rev. J. McMillan, H. D., and John McNab, Esq., \$200 each; James Scott, Esq., and A. K. Mackinlay, Esq., \$180 each; Hon. R. Bock, and the Medical Faculty, \$160 each; Rev. President Forrest, D.D., Hon. A. G. Jones, and Gen. Thomas, Esq., \$150 each; A. Burns, Esq., \$125; J. J. Lawrence, Esq., \$120; R. H. Cooley, Esq., J. Barnes, Esq., \$100; Prof. J. DeMille, Prof. J. Johnson, Prof. G. Lawton, Prof. J. Electro, Alex. McLeod, Esq., Prof. H. Moore, Esq., Hon. Jeremiah Northrop, Dr. Ed. Northrop, Esq., T. A. Ritchie, Esq., Rev. Principal Ross, D.D., Ed. Smith, Esq., H. Skinner, Esq., John Stairs, Esq., Jas. Thomson, Esq., and Hon. Sir Charles Tait, \$100 each; W. W. Cormichael, Esq., C. D. Hunter, Esq., Major-General Laurie, Messrs. Lawson, Harrington & Co., Prof. N. Macdonald, J. F. Mott, Esq., and Hon. Jas. Ritchie, \$80 each; G. P. Mitchell, Esq., and Hon. S. L. Shantz, \$60 each; J. B. Duffay, Esq., R. W. Fraser, Esq., Peter Jack, Esq., and W. H. Noel, Esq., \$50 each; with smaller sums amounting to \$1349.

The following donations have been made for the purpose of providing scientific apparatus:

Hon. Sir William Young, \$500; Prof. J. G. MacGregor, \$200; The Alumni Association, \$150; J. F. Avery, Esq., M.D., Thos. Bayne, Esq., Hon. R. Bock, Alex. McLeod, Esq., John McNab, Esq., Hon. Jeremiah Northrop, W. J. Stairs, Esq., and W. P. West, Esq., \$100 each; Thos. A. Brown, Esq., Messrs. Dossi & Miller, Messrs. Edwin & Co., John Gibson, Esq., Peter Jack, Esq., Prof. G. Lawton, J. S. McLean, Esq., Prof. Moore, Esq., Hon. J. W. Ritchie, James Thomson, Esq., and a friend, \$50 each; with smaller sums amounting to \$643.

For other benefactions, see under headings: Library, Museums, and Gymnasium.

In addition to the members of the present staff, the following have occupied Professorial Chairs in the College between the dates and in the subjects set opposite their names:

REV. THOMAS McCULLOCH, D.D., 1828-45, President, and Professor of Moral Philosophy, Logic and Rhetoric.

REV. ALEXANDER ROMAN, 1828-42, Classics.

REV. JAMES MCINTOSH, 1828-44, Mathematics and Natural Philosophy.

REV. FREDERIC TONKIN, M.A., LL.D. (Lond.), now Barrister, London, G. B., 1856-7, Mathematics and Natural Philosophy.

REV. GORDON CORNELL, B.A., (Lond.), now Professor of Classics, McGill College, 1856-7, Classics.

THOMAS McCULLOCH, 1853-5, Natural Philosophy.

JOHN MACKENZIE, M.A., Ph.D., 1877-79, Physics.

HERBERT A. BAYNE, M.A., Ph.D., F.R.S.C., late Prof. of Chemistry, Roy. Coll. Kingston, Ont., 1877-79, Organic Chemistry and Chemical Analysis.

JAMES DEMILLE, A.M., 1855-80, Rhetoric and History.

REV. DAVID HONEYMAN, D.C.L., F.S.A., F.R.S.C., Provincial Museum, Halifax, 1878-83, Geology and Palaeontology.

REV. JAMES ROSS, D.D., 1863-85, Principal, and Professor of Ethics, J. G. SCHURMAN, M.A., D.Sc., now Prof. of Ethics and Metaphysics, Cornell Univ., 1887-88, English Literature and Metaphysics.

HON. J. S. D. THOMPSON, now Minister of Justice, 1883-86, Lecturer on Procedure and Evidence.

ROBT. SEDGWICK, B.A., Q.C., now Deputy Minister of Justice, 1883-88, Lecturer on Equity Jurisprudence.

TIME TABLE—FACULTY OF ARTS.

| | Term. | Hours. | Monday. | Tuesday. | Wednesday. | Thursday. | Friday. |
|---------------|-------|--------|-------------------|-----------------|----------------|-----------------|----------------|
| First Year. | 9 | | Math. (Tutor.) | Eng. Chem. | Eng. Chem. | Math. (Tutor.) | Eng. Chem. |
| | 10 | | Latin. | Greek. | Greek. | Greek. | Latin. |
| | 11 | | Mathematics. | Botany. | Botany. | Mathematics. | Mathematics. |
| | 12 | | Latin (Tutor.) | Mathematics. | Mathematics. | Latin (Tutor.) | Mathematics. |
| | 13 | | | Eng. Chem. | Eng. Chem. | Eng. Chem. | Greek (Tutor.) |
| | 14 | | | 1st French. | 1st French. | 1st French. | 1st French. |
| | 15 | | 1st German. | | 1st German. | | 1st German. |
| | 16 | | | | | | |
| | 17 | | | | | | |
| | 18 | | | | | | |
| Second Year. | 9 | | Math. | Mathematics. | Mathematics. | Math. | Mathematics. |
| | 10 | | Mathematics. | Latin. | Latin. | Mathematics. | Latin. |
| | 11 | | Latin. | Greek. | Greek. | Latin. | Greek. |
| | 12 | | English Lit. | Latin. | Latin. | English Lit. | Latin. |
| | 13 | | Latin and German. | 1st French. | 1st French. | 1st German. | 1st French. |
| | 14 | | Log. and Phys. | Log. and Phys. | Log. and Phys. | Log. and Phys. | Log. and Phys. |
| | 15 | | | | | | |
| | 16 | | | | | | |
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| | 18 | | | | | | |
| Third Year. | 9 | | 2nd German. | 2nd French. | 2nd German. | 2nd French. | 2nd German. |
| | 10 | | | Greek (1st yr.) | | Greek (1st yr.) | |
| | 11 | | | Dynamics. | Dynamics. | Dynamics. | Dynamics. |
| | 12 | | | Botany. | Botany. | Botany. | Botany. |
| | 13 | | Org. Chem. | Adv. Classics. | Org. Chem. | Adv. Classics. | Org. Chem. |
| | 14 | | History. | Math. | History. | Math. | History. |
| | 15 | | Chem. Lab. | Chem. Lab. | Chem. Lab. | Chem. Lab. | Chem. Lab. |
| | 16 | | Latin. | Greek (1st yr.) | Latin. | Greek (1st yr.) | Latin. |
| | 17 | | Chem. Lab. | Class. Hist. | Chem. Lab. | Class. Hist. | Chem. Lab. |
| | 18 | | Latin. | Chem. Lab. | Latin. | Chem. Lab. | Chem. Lab. |
| Fourth Year. | 9 | | 1st German. | 2nd French. | 2nd German. | 2nd French. | 2nd German. |
| | 10 | | | Adv. History. | | Adv. History. | |
| | 11 | | | Metaphysics. | | Metaphysics. | |
| | 12 | | | | | | |
| | 13 | | | | | | |
| | 14 | | | | | | |
| | 15 | | | | | | |
| | 16 | | | | | | |
| | 17 | | | | | | |
| | 18 | | | | | | |
| Fifth Year. | 9 | | 2nd German. | 2nd French. | 2nd German. | 2nd French. | 2nd German. |
| | 10 | | | Pol. Economy. | | Pol. Economy. | |
| | 11 | | | Constit. Law. | | Constit. Law. | |
| | 12 | | | Dynamics. | | Dynamics. | |
| | 13 | | | Latin. | | Latin. | |
| | 14 | | | Adv. Classics. | | Adv. Classics. | |
| | 15 | | | History. | | History. | |
| | 16 | | | Adv. Physics. | | Adv. Physics. | |
| | 17 | | | Ethics. | | Ethics. | |
| | 18 | | | Latin. | | Latin. | |
| Sixth Year. | 9 | | Latin. | Greek (1st yr.) | Latin. | Greek (1st yr.) | Latin. |
| | 10 | | Chem. Lab. | Greek (2nd yr.) | Chem. Lab. | Greek (2nd yr.) | Chem. Lab. |
| | 11 | | Latin. | Latin. | Latin. | Latin. | Latin. |
| | 12 | | Chem. Lab. | Latin. | Chem. Lab. | Latin. | Chem. Lab. |
| | 13 | | Latin. | Greek (2nd yr.) | Latin. | Greek (2nd yr.) | Latin. |
| | 14 | | Chem. Lab. | Latin. | Chem. Lab. | Latin. | Chem. Lab. |
| | 15 | | Latin. | Latin. | Latin. | Latin. | Latin. |
| | 16 | | Chem. Lab. | Latin. | Chem. Lab. | Latin. | Chem. Lab. |
| | 17 | | Latin. | Latin. | Latin. | Latin. | Latin. |
| | 18 | | Chem. Lab. | Latin. | Chem. Lab. | Latin. | Chem. Lab. |
| Seventh Year. | 9 | | 2nd German. | 2nd French. | 2nd German. | 2nd French. | 2nd German. |
| | 10 | | | Adv. Metaphys. | | Adv. Metaphys. | |
| | 11 | | | | | | |
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 JAMES LEBERT, M. A. (Vind.), McLeod Professor of Modern Languages.
 JAMES GORDON MACGREGOR, M. A. (Dbs.), D.Sc. (Lond.), F.R.SS. E & C., George Murray Professor of Physics.
 RICHARD CHAPMAN WELDOS, A. M. (Mt. All.), Ph. D. (Yale), George Murray Professor of Constitutional and International Law.
 HON. CHARLES J. TOWNSEND, Judge of the Supreme Court, Lecturer on Equity Jurisprudence.
 HON. SAMUEL LEONARD SHEPPARD, D. C. L. (Vind.), Q. C., Lecturer on Real Property and Crimes.
 WALLACE GRAHAM, A. B. (Amd.), Q. C., Lecturer on Insurance.
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 JOHN YOUNG PATERSON, A. M. (Amd.), Lecturer on Thoreau.
 WILLIAM JOHN ALEXANDER, B. A. (Lond.), Ph. D. (J. H. U.), George Murray Professor of English Language and Literature.
 C. SEDETT HARRINGTON, Q. C., Lecturer on Evidence and Partnerships.
 JAMES SETH, M. A. (Edin.), George Murray Professor of Metaphysics and Ethics.
 WILLIAM HENRY WADDELL, Lecturer on Voice Culture and Elocution.
 HOWARD MURRAY, B. A. (Lond.), George Murray Tutor in Classics.
 ARTHUR STANLEY MACKENZIE, B. A. (Dul.), George Murray Tutor in Mathematics.
 DAVID BAILEY, Instructor in Gymnastics.

Librarian—PROFESSOR ALEXANDER.

Assistant Librarian: MR. MURRAY,
MR. MACKENZIE.

Curator of the Museum: PROFESSOR LAWSON.

Jasitor: ARCHIBALD DUNLOP.

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 MACDONALD,
 JOHNSON,
 LAWSON,
 LEBERT,
 MACGREGOR,
 ALEXANDER,
 SETH.

Secretary of the Faculty—PROFESSOR MACGREGOR.

TUTORS: MURRAY,
 MACKENZIE.

§ L—COURSES OF INSTRUCTION.

L—CLASSICS.

(McLeod Professorship.)

Professor..... JOHN JOHNSON, M. A.
 Tutor..... HOWARD MURRAY, B. A.

First Year Latin Class.

Professor's Class—Monday, Wednesday, and Friday, 10—11 A.M.—
 After Christmas the class is conducted by the Tutor.

‡ Tutorial Class—Monday and Wednesday, 12 M.—1 P.M.

Subjects of study:

Courses: *Free Latin Manilia.* (Wilkins's, Macmillan, Lond.) * *Pro Milone* (Parton's, University Press, Cambridge). *Virgil:* Arnold, Book VI. (*Pope's*, Macmillan, Lond.). Composition: *Arnold's Latin Prose*, by Bradley, (Harringtons, London). Grammar: *Syntax and Prosody* (Allen and Greenough, Gian, Boston.) History: *Roman History* (Smith's, Harpers, N. Y.).

* The Tutor will also be in the Library two or three times a week, from 2 to 3 p.m., when he may be consulted by students with reference to their studies.

* Students seeking a First or Second Class at the Sessional Examinations are examined in this additional subject. Such students are also required to show special accuracy in grammar.

Second Year Latin Class.

‡ Mondays, Wednesdays and Fridays, 11 A.M.—12 M.

Subjects of study :

Horace; Odes, Books I, "II, "III, (Foge's, Macmillan, London); Livy; Book I, (Stephenson's, Macmillan, London). Composition: Easy Pieces for Latin Prose, (First Series, Chapman's and Ronsard, Bivington's, London). History: Grecian History (Smith's smaller edit., Harper's, N. Y.)

Third and Fourth Years Latin Class.

Mondays, Wednesdays and Fridays, 12 M.—1 P.M.

Subjects of study in alternate years :

For 1888-9.—Horace; Selected Satires. Tacitus: Annals, Bk. I, (Smith's or Ashurst's).—Composition: Bennett's Second Latin Writer (pub. by Bivingtons, London.)

For 1889-90.—Tacitus: Agricola (Church & Brodrich's, Macmillan, London.) Phœbus: Captivi (Harrington's, Harper's, N. Y.) Juvenal: Satires III, X, XIII, (Hardy's, Macmillan, London, 5s.)—Composition: Bennett's Second Latin Writer (pub. by Bivingtons, London.)

First Year Greek Class.

Tuesdays and Thursdays, 10—11 A.M.; Fridays, 12 M.—1 P.M.

(Conducted by the Tutor.)

Subjects of study :

Lucian: Vera Historia, (Jerram's, Clarendon Press, Oxford.) *Xenophon: Cyropaedia, Book I, Gorham's, Whittaker, London.) Composition: Elementary Greek Prose Composition, (by Fletcher & Nicholson, pub. by W. Ballie, Kingston, Ont.) Introductory rules; oral and *written exercises.—Grammar: Accidence, (Goodwin's, Ginn, Boston.)

Second Year Greek Class.

‡ Tuesdays and Thursdays, 11 A.M.—12 M.

Subjects of study :

Homer: Odyssey, Book IX, (Major's, Macmillan, London.) Xenophon: Hellēnica, Book II, (Halliston's, Macmillan, London.) Demosthenes: Olynthias, (Oxford ed. with notes.)—Composition: As in First Year's Class; also Sidgwick's First Greek Writer, (Bivington, London,) introductory rules; oral and *written exercises.

* Students seeking a First or Second Class at the Sessional Examinations are examined in this additional subject. Such students are also required to show special acquaintance in Grammar.

† An "exegesis" passage will be set for translation to students seeking a First Class in three years.

The Tutor will also be in the Library two or three times a week, from 2 to 5 p.m., when he may be consulted by students with reference to their studies.

Third and Fourth Years Greek Class.

Tuesdays and Thursdays, 12 M.—1 P.M.

Subjects of study in alternate years :

For 1888-9.—Demosthenes: Philippic, I, II, III, (Tarbell's, Ginn & Co., Boston.) Euripedes; Medea, (Vernar's, Macmillan, London.)—Composition: Sidgwick's Introduction to Greek Prose Composition, introductory rules; oral and *written exercises.—Philology: Peile's Primer of Comparative Philology.

For 1889-90.—Plato: Apologia Socratis; (Adam's, Clarendon Press, Oxford.) Aeschylus: Prometheus Vinctus.—Composition: Sidgwick's Introduction to Greek Prose Composition, introductory rules; oral and written exercises.—Philology: Müller's Science of Language, vol. I, chaps. 1-7.

Advanced Class.

Twice or three times a week.

In this class the Latin and Greek Subjects prescribed for Honours in the department of Classics are read, and Latin Prose Composition is regularly practiced.

II.—MODERN LANGUAGES.

(McLeod Professorship.)

Professor..... JAMES LICHEN, M.A.

First French Class.

Tuesdays and Thursdays, 2—3 P.M.

Subjects of study :

Gautier: Guillemin le Compagnon (Hachette & Co.) Moléire: Le Bourgeois Gentilhomme, (Macmillan & Co.) Exercises in Grammar and Composition.

Text Books: French's Public School Elementary French Grammar. Other Text Books required will be announced at the opening of the Session.

Second French Class.

Tuesdays and Thursdays, 2—3 P.M.

Subjects of study :

Moléire: L'Avare, Racine: Athalie, (Macmillan & Co.), Translation from English writers. Exercises in Syntax.

Moléire's Misanthrope (Macmillan & Co.) is prescribed for private reading to candidates for a First Class position at the Sessional Examinations.

Text Books: French's Public School French Grammar. Other Text Books required will be announced at the opening of the Session.

I An "exegesis" passage will be set for translation to students seeking a First Class in three years.

* Students seeking a First or Second Class at the Sessional Examinations are examined in this additional subject. Such students are also required to show special acquaintance in Grammar.

Third French Class.

Tuesdays and Thursdays, 9-10 A.M.

Subjects of study :

Molière: *Les femmes savantes*, (Macmillan & Co.) Corneille: *Horace*, (Clarendon Press). Translations from English writers. Original Essays. Lectures on French Literature.

Molière's *Tartuffe* (Macmillan & Co.) is prescribed for private reading to candidates for a First Class position at the Sessional Examinations.

Text Book: Brachet's Public School French Grammar.

First German Class.

Mondays, Wednesdays and Fridays, 3-4 P.M.

Subjects of study :

Adler's *Reader*, parts III, IV and V.; Schiller: *Wilhelm Tell*, (Macmillan & Co.) Act I. Exercises in Grammar and Composition.

Text Book: Otto's German Grammar. Other Text Books required will be announced at the opening of the Session.

Second German Class.

Mondays, Wednesdays and Fridays, 5-6 P.M.

Subjects of study :

For 1888-9. Goethe: *Egmont*. Schiller: *Maria Stuart*, (Macmillan & Co.). Translations from English writers. Lectures on German Literature.

For 1889-90. Goethe: *Hermann und Dorothea*, (George Bell & Sons); Schiller: *Maria Stuart*, (Macmillan & Co.). Lectures on German Literature.

Schiller's *Geschichte des dreißigjährigen Kriegs*, Part I., Book I., is prescribed for private reading to candidates for a First Class position at the Sessional Examinations of 1889.

Text Book: As in First Class.

Third German Class.

Mondays, Wednesdays and Fridays, 9-10 A.M.

Subjects of study :

For 1888-9.—Lessing: *Ninan von Burghaem*, (Macmillan & Co.). Schiller: *Jugend von Orleans*. Prose composition. Lectures on German Literature.

For 1889-90.—Goethe: *Egmont*. Lessing: *Nathan der Weise*. Prose composition. Lectures on German Literature.

Schiller's *Wallenstein's Tod*, (George Bell & Sons) is prescribed for private reading to candidates for a First Class position at the Sessional Examinations of 1889.

III.—ENGLISH LANGUAGE & LITERATURE.

(George Moore Professorship.)

Professor.....W. J. ALEXANDER, Ph.D.

First Year Class.

Tuesdays and Thursdays, 12-1 P.M.

Composition, embracing Exercises in the formation of sentences, General Principles of Composition, Characteristics of Style, etc.—Students are required to write exercises, for the most part on subjects connected with the course in Literature.

As an illustration of the principles laid down in the course on Composition, and as an introduction to the study of literature, the following works will be read critically:—

Dryden: *Mac Flecknoe*, *St. Cecilia's Day*, *Alexander's Feast*, *Stanzas on Oliver Cromwell*, *Astraea Redux*, *Annan Mirabilis*, *Abelard and Aschilepol*, *Ad�ion*; *Select Essays*. Pope: *Rape of the Lock*. Johnson: *London*, *Vanity of Human Wishes*, *Life of Pope*, *Lives of Dryden, Addison, and Gray*. Gray: *Elegy*. Goldsmith: *Deserted Village*, *Select Essays*. Macaulay: *Samuel Johnson*.

Books recommended: Nibbs' *Composition Primer* (Macmillan); Hudson's *Selections from Addison and Goldsmith*, (Ginn & Heath, Boston); Clarendon Press Editions of Dryden; Hale's *Longer English Poems* (Macmillan)—which contains all the poetry read in the class.

Second Year Class.

Mondays, Wednesdays and Fridays, 12-1 P.M.

Critical readings of select works of Shakespeare and Milton, with lectures thereon:—

Shakespeare: Richard II., Midsummer Night's Dream, *"Henry IV."*, Part I. and II., *"Merchant of Venice*, Julius Caesar, King Lear, *"Anthony and Cleopatra"*, Milton: *L'Allegro*, *H' Penseroso*, *Lycidas*, *Paradise Lost*, Bks. IV., VII.—IX.

Students will be required to write exercises from time to time, for the most part on subjects connected with the course in Literature.

Books recommended: Holt's Edition of the separate plays of Shakespeare. Dowden's *Shakespeare Primer*, Clarendon Press Edition of Milton.

Third and Fourth Year Class.

Twice a week.

Lectures on some of the leading poets and prose writers of the nineteenth century, with reading of selected works.

This class will be held in alternate sessions, beginning with the session of 1889-90. Undergraduates will not be permitted to take this class as a part of their ordinary course, unless their ability to profit by it has been made clear to the Professor by their previous week.

* Candidates for First Class will be examined in these additional works, which will not be read in class.

Advanced Class.

Detailed history of Elizabethan and Early Stuart Literature with special study of select works (§ xi. (ii)).

Books recommended: *Salisbury's History of Elizabethan Literature*; *Roll's Editions of Shakespeare*, *Clarendon Press* and *Arter's Editions* of Elizabethan works.

IV.—HISTORY AND POLITICAL ECONOMY.

(*George Munro Professorship.*)

Professor.....REV. PETERSON FORSTER.

Third Year History Class.

Mondays and Wednesdays, 12 A.M.—12 M., and Fridays, 10—11 A.M.

Subjects of study :

Medieval History and Modern History to 1558.

The class work will be conducted by means of lectures and examinations on prescribed reading.

Text Book: *Gibbon's Decline and Fall of the Roman Empire* (Student's Edition).

Books recommended: *Hallam's Middle Ages*; *Bryant's Holy Roman Empire*; *Living's Mahomet and His Successors*; *Galbraith's History of Civilization*; *Macaulay's History of the Crusades*; *Robertson's Charles V.*; *Shaw's Constitutional History of England*.

Fourth Year History Class.

Tuesdays and Thursdays, 11 A.M.—12 M.

Subjects of study :

Modern History from 1558.

The class work will be conducted by means of lectures and examinations on prescribed reading. In the lectures books of reference will be named and select portions specified for reading.

Text Books: *Green's England*; *Grinot's France* (Masson's Abridgement); *Maud's Germany*.

Advanced History Class.

Once a week.

Subjects of study :

English History from 1603 to 1658.

The work of this class will be conducted by means of lectures and examinations on reading prescribed from *Clarendon*, *Gardiner*, *Green*, *Hallam*, *Ranke*, and other authorities.

This class is intended especially for Candidates for Honours in English Literature and History.

Political Economy Class.

Tuesdays and Thursdays, 10—11 A.M.

The work of this class will be conducted by means of lectures and examinations or prescribed reading.

Text Book: *Mill's Principles of Political Economy*.

Advanced Political Economy Class.

Twice a week.

The work of this class will consist of lectures, entering into the principles of Political Economy more fully than can be overtaken in the ordinary class, with examinations on the following books, viz.: *Smith's Wealth of Nations*, *Cairnes' Principles of Political Economy*, *Carey's Principles of Social Science*, *Roucher's Political Economy*, *Fawcett's Protection and Free Trade*, *Carey's Harmony of Interests*, and *George's Progress and Poverty*.

V.—METAPHYSICS AND ETHICS.

(*George Munro Professorship.*)

Professor.....JAMES STEWART, M.A.

Metaphysics Class (Third and Fourth Years).

Mondays and Wednesdays, 4—5 P.M.

After an introductory account of the nature and scope of Philosophy in its various departments, and a general sketch of the history of Metaphysics, attention will be concentrated on modern metaphysical theories. Here the history of Cartesianism will first be treated; and afterwards, in more detail, the development of modern Sensationalism in Locke, Berkeley and Hume, leading up to the Critical Philosophy of Kant. The significance of Berkeley in the latter movement will receive special attention, and his philosophy, as contained in the *Text Book*, will be made the subject of detailed study, oral examination and discussion.

The work of the class will be conducted mainly by lectures, but will also embrace an essay and special readings in connection with the course.

Text Book: *Fraser's Selections from Berkeley*, (Clarendon Press Series.)

Ethics Class (Fourth Year).

Mondays, Wednesdays and Fridays, 11 A.M.—12 M.

After an introductory account of the province and method of Ethics, and its relation to other branches of Philosophy, the history of ethical thought will be traced, and the various theories critically examined. The course will thus fall into two divisions,—the one concerned with Ancient (chiefly Greek), the latter with Modern (chiefly British and German) ethical theories. Under the latter division will be explained

and criticised the different forms of Intuitionism—Aesthetic and Rational; of Hedonism—Egotistic, Altruistic and Evolutionistic; and of Transcendentalism—Kantian and Neo-Kantian.

The work of the class will be conducted mainly by lectures, but will also embrace oral examination and discussion. Short essays, as well as special readings in connection with the course, will be prescribed from time to time.

Text Book: Sidgwick's *Outlines of the History of Ethics* (Macmillan & Co).

Advanced Class (Fourth Year).

Tuesdays and Thursdays, 2—3 P. M., and Fridays, 4—5 P. M.

In this class, which is intended mainly, though not exclusively, for candidates for Honours in Philosophy, the books prescribed for Honours in Metaphysics and Ethics will be made the subject of critical study.

VI.—LOGIC AND PSYCHOLOGY.

Professor Rev. W. LYALL, LL.D.

Second Year Class.

Mondays, Tuesdays, Wednesdays and Thursdays, 3—4 P. M.

This course will consist of lectures on Mind and its phenomena,—the laws and faculties of Cognition, comprising a review of the doctrines of Locke, Reid, Stewart, Brown, Hamilton, and the modern Sensationalist School, with the philosophy of the Emotions. Under Logic will be considered—the nature of Concepts, Judgments and Reasonings; the opposition and conversion of Propositions; the different orders of Syllogism; the Fallacies; the doctrine of Method; the sources of Error and the means of their correction.

Books recommended: Sir Wm. Macmillan's *Lectures on Metaphysics and Logic*; Prof. Lyall's "Intuition, the Emotions and the Moral Nature."

Advanced Class.

Fridays, 2—3 P. M.

This class is intended especially for candidates for Honours in Mental and Moral Philosophy, the work extending over two sessions, and alternating between the two divisions of the general subject.

The lectures will enter into a more critical review of the psychological phase of Philosophy, the theory of the Ratiocinative process, with especial reference to the views of Mill and Hamilton; together with the laws and methods of Inductive Logic.

Books recommended: Sir Wm. Macmillan's *Lectures on Metaphysics and Logic*; Prof. Lyall's "Intuition, the Emotions and the Moral Nature."

ALGEBRA and *GEOMETRY*—each year of study to include one year of Algebra and one year of Geometry.

VII.—MATHEMATICS.

Professor G. MACDONALD, M.A.

Tutor A. E. MACLENNAN, B.A.

First Year Class.

Daily, 11 A. M.—12 M.

Subjects of study:

ALGEBRA.—Introduction, Evolution, Theory of Indices, Equations of the First and of the Second Degree, Elements of Determinants, Proportion, Inequalities, Indeterminate Equations, Variation, Progressions, Propositions in the Theory of Equations, with Horner's method of approximating the roots of an Equation of a Degree higher than the Second.

GEOMETRY.—First and Second Books of Euclid revised, Third and Fourth Books; Definitions of Fifth, and Sixth Book, with Geometrical Exercises and Practical applications.

The class meets daily with the Professor. The Tutorial class meets once a week, for the purpose of revision of the Professor's Lecture, and Illustration of them in working further examples. The Tutor will also be in the Library two or three times a week, from 3 to 5 o'clock, P. M., when he may be consulted by students with reference to their studies.

Books recommended: Colenso's or Todhunter's or Macmillan Smith's (Hillier & Co.) Elements of Geometry; Colenso's or Todhunter's Algebra; C. Smith's Treatise on Algebra; Hall & Knight's Higher Algebra. (The two latter books are recommended to those who wish to do advanced work. Todhunter's small School Algebra is scarcely sufficient for its course.)

Second Year Class.

Daily, 10—11 A. M.

Subjects of study:

GEOMETRY.—Sixth Book of Euclid revised. Drew's Conic Sections, Parabola and Ellipse. Geometrical Exercises continued; 21 Propositions of the Eleventh Book of Euclid.

TRIGONOMETRY.—Analytical Plane Trigonometry as far as, but exclusive of, DeMoivre's Theorem. Practical applications, with the use of Logarithms to the Solution of Triangles. Measurement of Heights and Distances, Navigation, &c. Spherical Trigonometry as far as the solution of Right-Angled Triangles.—For First or Second Class; Extension of Ordinary Course; DeMoivre's Theorems and Series connected with the measurement of Circular arcs.

ALGEBRA.—Permutations and Combinations, Binomial Theorem, Properties of Logarithms, Compound Interest, Annuities, Probability.—For First or Second Class; Extension of Ordinary Course. Investigations connected with the Binomial Theorem, Indeterminate Co-efficients, and the Theory of Logarithms, with applications.

The ordinary class meets, in the beginning of the Session, three days with the Professor, and two days with the Tutor; afterwards, two days with the Professor and three with the Tutor.

The main subjects of study in the Professor's classes are Modern Geometry and Advanced Algebra; in the Tutor's Euclid, the Conic Sections geometrically treated, and Analytical Plane Trigonometry.

The Professor holds a class one day a week (Friday) for those studying the additional subjects for First or Second Class.

The Tutor will be in the Library two or three times a week from 2 to 5 P. M., when he may be consulted by students with reference to their studies.

Books recommended—Colenso's Algebra, 1st part and, for the additional subjects, 2nd part; also the books recommended for the first year; Todhunter's Plane Trigonometry; Todhunter's Spherical Trigonometry; Chamberlain's Logarithmic, &c. Tables.

Advanced Class.

There are two Divisions in this Class:

The First Division meets three times a week.* Subjects: Analytical Trigonometry, commencing with the applications of DeMoivre's Theorem; Analytical Geometry; Spherical Trigonometry as far as Napier's Analogies; Theory of Equations; Differential Calculus.

Books recommended—Todhunter's Plane Trigonometry; G. Snell's Code Rhythmic; Todhunter's Theory of Equations; Williamson's Differential Calculus; Williamson's Integral Calculus; Todhunter's Spherical Trigonometry. Any Standard Works on the subjects treated may, however, be used.

The Second Division meets three times a week.* Subjects: Spherical Trigonometry as far as Napier's Analogies; Theory of Equations; Differential Calculus; Integral Calculus, with Differential Equations; Applications of these to Physics, Physical Astronomy, &c.

Books recommended—The same as for the First Division. Also, Tait's Statics of Particles; Todhunter's Analytical Statics; books on Differential Equations.

VIII.—PHYSICS.

(George Muir Professorship.)

Professor J. G. MacCoshan, D.Sc.

Third Year Physics Class.

Tuesday, Thursday and Friday, 11 A. M.—12 M.

Subjects of the lectures :

The elements of Dynamics; the properties of solid and fluid bodies; Heat; Electricity and Magnetism; Light and Radiant Heat; and Sound. These subjects will be treated in an elementary manner. Dynamics only is so far as a knowledge thereof may be necessary in the study of the other subjects of the course.

Books recommended—Lodge's Elementary Mechanics (W. & R. Chambers); Garrett's Elementary Treatise on Heat (Dwighton, Bell & Co.); Compton's Electricity Treated Experimentally (Harcourt), and Deacon's Natural Philosophy, Ed. Everett, Part IV.—Sound and Light (Blackie & Son).

* An extra hour for some part of the session may be required.

Fourth Year Physics Class.

Mondays and Wednesdays, 10—11 A. M.

The subjects studied in this class will be the same as those of the Third Year Class, but they will be treated in a less elementary manner. In the present session attention will be directed more especially to Heat and Electricity.

Books recommended—For ordinary students, Maxwell's Theory of Heat (Longmans), and Compton's Theory of Electricity (Dwighton & Co.). For more advanced students, Planck's Theory of Heat, &c., are recommended to read also MacGregor's Electricity and Dynamics (Macmillan & Co.), Tait's Properties of Matter (A. & C. Black), S. Taylor's Sound and Waves (Macmillan & Co.), Lloyd's Wave Theory of Light (Longmans).

Dynamics Class.

Tuesday and Thursday, 10—11 A. M.

The lectures will be on the following subjects :

Kinematics : (a) motion of a point, (b) motion of a rigid system of points, (c)* strains.

Dynamics : (m) of a Particle, including Kinetics and Statics, (s) of systems of Particles, (c) of a rigid body, including Kinetics and Statics, (d)* of elastic solids and fluids.

The portions of the subject marked above with asterisks are intended for candidates for a first class position at the Sessional Examinations. The portions not thus marked constitute the ordinary work of the class.

Text Book—MacGregor's Kinematics and Dynamics (Macmillan & Co.).

Advanced Mathematical Physics Class.

Mondays and Wednesdays, 11 A. M.—12 M.

The subjects of the lectures will be as follows :

Kinematics; Dynamics of a Particle and of a Rigid Body; Hydrodynamics; Thermodynamics; Electrodynamics—Students will be assumed to have a sufficient knowledge of the Differential and Integral Calculus and to be familiar with the Text Book of the Dynamics Class.

This class is intended especially for candidates for Honours in Mathematics and Physics, but other persons having sufficient knowledge of Mathematics and Physics will be admitted.

Books recommended—Tait and Steele's Dynamics of a Particle (Macmillan & Co.); AMI's High Dynamics (Dwighton, Bell & Co.); Steele's Hydromechanics (Dwighton, Bell & Co.); Tait's Sketch of Thermodynamics (Dwighton, Edinburgh.)

Practical Physics Class.

The work of this class will consist of the exact determination of physical constants, such as density, specific heat, electromotive force, electrical resistance, &c., and the conducting of experimental investigations.

The class is intended especially for candidates for Honours in Experimental Physics and Chemistry; but other persons having sufficient knowledge of Physics will be admitted.

Book recommended—Glaister and Stace's Practical Physics (Longmans, Green & Co.).

IX.—CHEMISTRY.

(McLeod Professorship.)

Professor.....GEORGE LAWRENCE, Ph. D., LL.D.

Inorganic Chemistry Class.

Tuesday, Wednesday and Friday, 9—10 A. M.

Subjects of Lectures :

General Principles. Chemical Affinity. Laws of Combination, by weight, by volume. The Elements. Compounds. Equivalent and Atomic Numbers; Atomity. Nomenclature; Notation; Formulae; Equations. The Non-Metallic Elements considered in detail; their modes of occurrence in nature; preparation in the free state; their compounds; natural phenomena and artificial processes in which they take part; useful manufactures to which they are related. The Metals considered in regard to their physical and chemical characters and modes of occurrence in nature; Classification of the Metals. Alloys, Amalgams; Constitution of Salts; Bases, Acids, Radicals. Discussion of the more important Metallic Elements in detail; their Salts and other compounds; Metallurgical processes; Chemical Manufactures.

Text Book: Coe's Edition of Wurtz's Elements of Modern Chemistry (Lippincott, Philadelphia.)

Organic Chemistry Class.

Monday and Wednesday, 10—11 A. M.

Subjects of Lectures :

Principles of Classification. Elementary Analysis. Methane and its Homologues, and their Substitution Compounds. The Monotonic Alcohols, and related compounds. The Fatty Acids. Compound Ethers. Polyatomic Alcohols, Ethers and Acids. The Aromatic Series. Benzil and its derivatives. Alkaloids.

Students are exercised in the Laboratory in the preparation of organic compounds, and in experiments to determine their properties.

Text Book: Green's Edition of Wurtz's Elements of Chemistry. Reference works in the College Library will be recommended during the course.

Chemical Laboratory.

PRACTICAL CHEMISTRY.—Systematic Separation and Detection of Bases and Acids. Preparation of Reagents. The work is done entirely by the students. Where additional time can be given, students will also be exercised in the preparation of, and manipulation with, the more important elementary and compound gases.

Laboratory Books: One of the following: Mendelsohn's Practical Chemistry, Princeton's Quantitative Analysis, Goodeve's Text Book.

QUANTITATIVE ANALYSIS.—Instruction is provided in Quantitative Analysis, for the benefit of candidates for Honours in Experimental Physics and Chemistry, and also for Students who, having taken Practical Chemistry in their Third Year, are desirous of taking it

again in their Fourth Year. Other persons, having a sufficient knowledge of Chemistry, will also be admitted. Instruction is offered not only in General Quantitative Analysis, but also in special work, such as the analysis of Ores, Coal, and other Mineral Substances, Fertilizers, Soils, Mineral Waters, Sanitary Examinations of Water, Air and Food, Detection and Estimation of Poisons.

Laboratory students are required to furnish themselves with test tubes and to replace apparatus which they may destroy; and those who wish to work in special departments, such as any of those mentioned above, or to engage in original research, may require to furnish themselves with the necessary apparatus.

Text Book: Princeton's Quantitative Analysis, Vol. I. Special works in the College Library, will be recommended when necessary.

X.—BOTANY.

Professor.....GEORGE LAWRENCE, Ph. D., LL.D.

Tuesday and Thursday, 10—11 A. M.

The course in Botany embraces the subjects of Structural and Physiological Botany, special attention being given to Minute Structure and Development of Tissues, the phenomena of Growth, Reproduction, Life-History, and Plant Movements. Also Classification, as illustrated by the leading natural orders of North American plants. A Biological Laboratory, in connection with this class, will be fitted up in the new College Building.

Text Book: Goodale's Physiological Botany (vol. II. of Gray's Botanical Text Book). *Field Book for Summer Work:* Gray's Manual.

§ II.—THE ACADEMIC YEAR.—The academic year consists of one session. The session of 1888-9 will begin on Wednesday, 12th September, 1888, and end on Wednesday, 24th April, 1889.

§ III.—ADMISSION OF STUDENTS.—1. Persons of either sex may become students of the College by (a) furnishing satisfactory references or certificates of good moral character (on first entering the College), (b) entering their names in the Register (annually), and (c) paying the annual Registration fee (§ XXI).

(2.) Registered students may on payment of the proper fees (§ XXI), enter any of the ordinary classes of the College. The Tutorial classes are open to members of the ordinary classes in connection with which they are held; the Advanced classes, to students who have sufficient knowledge of the subjects taught in them.

(3.) Students who are candidates for degrees are known as Undergraduates, others as General Students.

(1.) Three baccalaureate degrees are conferred in the Faculty of Arts, those, viz., of Bachelor of Arts (B. A.), Bachelor of Letters (B. L.) and Bachelor of Science (B. Sc.).

(2.) Persons who wish to obtain University Degrees must become Undergraduates. Persons of either sex may become Undergraduates by (a) passing either one of the Matriculation Examinations or a recognized equivalent (§§ iv, 4-6, and vi), and (b) matriculating, i. e., entering their names on the Matricula or Register of Undergraduates.

(3.) Two Matriculation Examinations are held, of lower and higher grade respectively. The First Year Matriculation Examination admits to the First Year of the various courses. The Second Year Matriculation Examination admits to the Second Year of the various courses, and thus enables those who pass it to obtain their degrees at the end of three academic years.

(4.) Persons may be admitted as Undergraduates of the First Year, without Examination, on presentation of certificates from the Principals of High Schools or Academies, approved for this purpose by the Faculty, stating that they have satisfactorily completed the work prescribed for the First Year Matriculation Examination and passed satisfactory examinations therin.

(5.) Persons, who may have appeared as candidates for Junior Munro Exhibitions and Bursaries, may be admitted as Undergraduates of the First Year, without further examination, provided their examinations are approved by the Faculty.

(6.) Undergraduates of other Universities may, on presenting satisfactory certificates, be admitted *ad studiorum statum* in this University, if on examination they are found qualified to enter the classes proper to their years. But if their previous courses of study have not corresponded to the courses on which they enter in this University, they may be required by the Faculty to take additional classes.

(7.) Undergraduates must pursue, at the College, specified courses of study, which vary with the degrees for which they are candidates, but in the case of all degrees extend over four years. They must also pass the prescribed examinations according to the regulations of § II.

§ V.—FIRST YEAR MATRICULATION EXAMINATION.

(1.) The following are the subjects of this Examination:

I and 2. Two of the following:—Latin, Greek, French, German. (Candidates for B. A. must pass in Latin, and if they are to take Greek as one of the subjects of the First Year, must also pass in Greek.)

LATIN.—Grammar. Composition—Translation of easy sentences, as in Smith's *Principia Latina*, Part IV., Exs. 1-33. One Latin book. The following books are recommended:

For 1888 : *Cæsar*, *Gallie War*, Book I.; or *Virgil*, *Aeneid*, Book I.

For 1889 : *Cæsar*, *Gallie War*, Books II. and III.; or *Virgil*, *Aeneid*, Book I.

GREEK.—Grammar. One Greek book. The following books are recommended:

For 1888 : *Xenophon*, *Anabasis*, Book III., or *Symposium* (Wittman's, pub. by J. Allyn, Boston.)

For 1889 : *Xenophon*, *Anabasis*, Book IV., or *Syrupotam* (See above).

FRANCE.—Voltaire : *Charles XII.*, Books I. and II.; or *Scribe, Brevet de Rânes* (Comédie). Questions in Grammar limited to the Accidence, and based upon the passages selected.—Easy English sentences for translation into French.

GERMAN.—Adler's *German Reader* (Appleton & Co.), Zweiter Abschnitt, 1-4 and 14-17 (inclusive); or Schleier's *Der Nephil im Goblet*, I Act. *Grammar*: Declensions of the Articles, Nouns, and Adjectives.

N. B.—Instead of the books recommended above in Latin, Greek, French and German, candidates may offer equivalents which are not included in the Course of Study. Such equivalents must have been previously approved by the President.

3. MATHEMATICS.—*Arithmetic*. *Geometry*: Euclid's Elements, Books I. and II. *Algebra*: Simple Rules, and Simple Equations of one unknown quantity, not involving surds.

4. ENGLISH.—*Language*: Grammar, Analysis, Writing from Dictation, Punctuation, Synthesis, Paraphrasing. *History* and *Geography*: Outlines of English and Canadian History, and General Geography.

The above examination may be conducted partly *sim voc.*

(2.) Candidates taking French and German, and those who wish to offer equivalents, are required to give notice to the President, of their intention to appear at this Examination, at least one week before the day on which it is held, and in giving such notice they must state which of subjects 1 and 2 they take and what equivalents they offer instead of books specified above.

(3.) This examination will be held at the College on September 11th-17th, 1888. For the benefit of candidates unable to present themselves on these days, an opportunity will

be granted of appearing for examination on October 10th-12th. But no student will be admitted as an undergraduate at a later date without the special permission of the Faculty.

§ VI.—SECOND YEAR MATRICULATION EXAMINATION.

—(1.) The following are the subjects of this examination :

1 and 2. Two of the following : Latin, Greek, French, German, Botany. (Candidates for B. A. must pass in Latin); if they are to take Greek as one of the subjects of the Second Year, they may also pass in Greek; if not, they may select Greek, or French, or German.—Candidates for B. L. must pass in two languages, of which one must be French or German.—Candidates for B. Sc. must pass in one modern language and in Botany).

LATIN.—The ordinary* subjects of the First Year Class, as specified in § 1, together with one additional book.

GREEK.—The ordinary* subjects of the First Year Class, as specified in § 1, together with one additional book.

FRENCH.—The subjects of the First French Class, as specified in § 1.

GERMAN.—The subjects of the First German Class, as specified in § 1.

BOTANY.—The subjects of the lectures of the Botany Class, as specified in § 1.

N. R.—Instead of the books prescribed above in Latin, Greek, French, and German, candidates may offer equivalents which are not included in the Course of Study. Such equivalents must have been previously approved by the President.

3. MATHEMATICS.—The subjects of the First Year Class, as specified in § 1.

4. ENGLISH.—In addition to the subjects of the First Year Matriculation Examination (in which special stress will be laid on Composition), candidates will be required to pass an examination on the literary subjects specified for the ordinary* work of the First Year Class (§ 1)—or the equivalents thereof.

5. INORGANIC CHEMISTRY.—The subjects of the First Year Class (§ 1).—Candidates may omit this subject; but in that event they must either pass the examination therein or enter the Third Year, or take instead of one of the elective subjects in the Third Year.

The above examination may be conducted partly *sive reo.*

(2.) Candidates who have previously passed in any one or more of the above subjects, or in any portion thereof, either at the Matriculation Examination or at the Sessional Examinations of the First Year, shall be exempt from further examination therein.

* The "ordinary" subjects are those not marked with an asterisk in § 1.

(3.) Candidates must give at least one fortnight's notice to the President, of their intention to appear at this examination; and in giving such notice they must state in what Latin, Greek, French, German, and English books they intend to offer themselves for examination, whether or not they wish to be examined in Chemistry, and in what subjects they claim exemption from examination.

(4.) This examination will be held at the College on September 11th—17th, 1888. For the convenience of candidates unable to appear on these days, an opportunity will be granted of appearing for examination on October 10th—13th. But no student will be allowed to enter as an undergraduate at a later date, without the special permission of the Faculty.

§ VII.—COURSES OF STUDY FOR DEGREES OF B. A. AND B. L.—The following is a list of the classes which undergraduates are required to attend in the four years of the B. A. and B. L. courses. The details of the subjects studied in these classes, will be found under Courses of Instruction (§§ 1 and XXII).

First Year.

1. For B. A.—Latin. For B. L.—German.
2. For B. A.—Greek, or French, or German. For B. L.—French.
3. Mathematics.
4. Inorganic Chemistry.
5. English.

Undergraduates taking French or German, enter the classes for which the Professor considers them fitted.

Second Year.

1. For B. A.—Latin. For B. L.—German.
2. For B. A.—The language chosen as subject 2 in the 1st year. For B. L.—French.
3. Mathematics.
4. English Literature.
5. Logic and Psychology.

Third Year.

1. For B. A.—Latin or Greek. The language selected must have been taken during the first two years. For B. L.—German or French.

2. Physics.
3. History.

4—5. Any two of the following* :

- | | |
|---------------------------------------------|-------------------------|
| a. Greek. | g. Political Economy. |
| b. Hebrew. | h. Metaphysics. |
| c. French. | i. Dynamics. |
| d. German. | j. Organic Chemistry. |
| e. English.† | k. Practical Chemistry. |
| f. Constitutional History (Law Faculty.) | l. Botany. |

Undergraduates are required, on or before the 29th of September, to submit to the President for approval, the names of the two subjects, 4-5, which they may wish to select.

Undergraduates selecting French or German for the first time, enter the classes for which the Professor considers them fitted. Those selecting Greek for the first time, enter the First Year Class.

A certificate of attendance on a class of New Testament Greek in any recognized College, will exempt from subject 1 or from one of the two subjects 4-5, an undergraduate who has taken Greek in the first two years.

The University provides no instruction in Hebrew, but a certificate of attendance on a Hebrew Class in any recognized College will exempt an undergraduate from one of the two subjects, 4-5.

FOURTH YEAR.

1. For *B. A.*—Latin or Greek. The language chosen must have been taken during the first three years. For *B. L.*—The language chosen as subject 1 in the 3rd year, unless the 2nd class in that language have been entered in the 1st year, in which case one of the electives a—e may be taken instead.

2. Ethics.

3—5. Any three of the following* :—

- | | |
|-----------------------|-----------------------------------------|
| a. Greek. | f. Constitutional Law (Law Faculty.) |
| b. Hebrew. | g. Physics. |
| c. French. | h. Practical Physics. |
| d. German. | i. Dynamics. |
| e. English.† | j. Organic Chemistry. |
| f. History. | k. Practical Chemistry. |
| g. Political Economy. | l. Botany. |
| h. Metaphysics. | |

Undergraduates are required, on or before the 29th of September, to submit to the President for approval, the names of the three subjects (3-5) which they may wish to select.

Undergraduates taking the First Year Greek class in the Third Year must take the Second Year class in the Fourth. Those taking the First French or First German class in the Third Year must take

* So far as the provisions of the Time Table permit.

† See Syllabus of English Classes (I. i.).

the Second class of the same subject in the Fourth. Neither the First Year Greek class nor the First German or French class can be taken in the Fourth Year without special permission.

Subjects in which but one class is provided (see § I) can be taken but once as part of the course.

A certificate of attendance on a New Testament Greek class in any recognized College, will exempt from subject 1, or from one of the three subjects 3-5, an undergraduate who has taken Greek during the last three years.

A certificate of attendance on a class in Hebrew in any recognized College will exempt from one of the three subjects 3-5. If the Hebrew class be one of 5 hours a week, attendance on it will exempt from two of the said subjects.

§ VIII.—COURSE OF STUDY FOR DEGREE OF B. Sc.—
The following is a list of the classes which undergraduates must attend during the four years of the B. Sc. Course. The details of the subjects studied in these classes will be found under Courses of Instruction (§ I).

First Year.

1. French or German.
2. Botany.
3. Mathematics.
4. Inorganic Chemistry.
5. English.

Practical work in Botany will be prescribed for the summer following the First Year.

Second Year.

1. The language chosen as subject 1 in the First Year.
2. Practical Chemistry.
3. Mathematics.
4. English Literature.
5. Logic and Psychology.

Third Year.

1. The modern language not chosen as subject 1 in the first two years.
2. Physics.
3. Dynamics.
4. Either Advanced Mathematics or Organic and Practical Chemistry.
5. One of the following :

| | |
|-----------------------|-------------------------|
| a. French. | e. Metaphysics. |
| b. German. | f. Organic Chemistry. |
| c. History. | g. Practical Chemistry. |
| d. Political Economy. | h. Ethics. |

Fourth Year.

1. The language taken as subject 1 in the Third Year.
2. Physics.
- 3-4. Either Advanced Mathematics and Advanced Mathematical Physics or Practical Chemistry and Practical Physics.
5. One of the following:—

| | |
|-----------------------|-------------------------|
| a. French. | f. Practical Chemistry. |
| b. German. | g. Practical Physics. |
| c. History. | h. Metaphysics. |
| d. Political Economy. | i. Ethics. |
| e. Organic Chemistry. | |

Undergraduates selecting French or German in the First or Third Years enter the classes for which the Professor considers them qualified.

No class can be taken twice during the Course.

§ IX.—ATTENDANCE.—(1.) Undergraduates are required to attend with regularity the classes of their respective years. Professors shall mark the presence or absence of students immediately before commencing the work of the class, and shall note as absent those who enter thereafter, unless satisfactory reasons be assigned.—The amount of absence as recorded in the class registers, which shall disqualify for the keeping of a Session, shall be determined by the Faculty.

(2.) Attendance on Tutorial Classes is, for the more advanced undergraduates, voluntary; but the Professors in connection with whose classes they are held, have the right of requiring the attendance of undergraduates whom they may consider to need the Tutor's help.

(3.) Undergraduates of any year, who may have previously attended one or more of the classes of that year, and passed satisfactory examinations in the subjects of them, may be exempted by the Faculty from attending those classes a second time.

§ X.—SESSIONAL EXAMINATIONS.—(1.) The examinations which candidates for Degrees are required to pass, after Matriculation, are called Sessional Examinations. They are held at the end of the Session * in each of the four years of the Courses, in the subjects of the classes of that year, as specified in §§ VII. and VIII. Candidates who wish merely to pass are examined in the ordinary work of the various classes only; candidates who wish to pass with distinction are in some classes

* In the subject of Psychology the examination is held at about the middle of the Session.

examined in additional work also.—The distinctions awarded are of two grades, First and Second Class.—All students are admitted to these examinations, and certificates are issued showing the standing they attain.

(2.) Undergraduates who are exempted by § IX. (3), from attendance on one or more classes, shall be exempted also from passing the Sessional Examinations in the subjects of them.

(3.) Undergraduates of the Third and Fourth Years who are exempted from attendance on one or more classes on presentation of certificates from recognized Colleges, shall be exempted from examination in the subjects of those classes on presentation of certificates of having passed examinations therein, in the said Colleges.

(4.) An undergraduate shall not be allowed as such to enter the classes of any year, unless he has passed all the required examinations of the previous year.

(5.) If an undergraduate absent himself from any University Examination, except for such cause as may be considered sufficient by the Faculty, he shall lose his Session.

(6.) If an undergraduate fail to pass in more than two subjects at any Sessional Examination he shall lose his Session.—In the case of an undergraduate taking a Session a second time, the Faculty may remit attendance on classes, the examinations of which he has already passed with credit.

(7.) If an undergraduate fail to pass in more than two subjects at the Sessional Examinations of the First Year, he shall be allowed to appear as a candidate at the Second Year Matriculation Examination of any subsequent Session.

(8.) If an undergraduate fail to pass in one or two subjects at any Sessional Examination, he shall be allowed a Supplementary Examination in such subject or subjects at the beginning of any subsequent Session, on the day fixed for that purpose in the University Almanac. For fee see § XXX.

(9.) If an undergraduate absent himself from any Sessional Examination on the day appointed in the Almanac, for reasons considered sufficient by the Faculty, he shall be allowed to appear for examination on the day fixed in the Almanac for the corresponding Supplementary Examination. For fee see § XXX.

(10.) If an undergraduate absent himself from a Supplementary Examination for reasons deemed sufficient by the Faculty, he shall be allowed to appear as a candidate at a

special Examination, on a day to be appointed for that purpose by the Faculty. For fee see § XXI.

(11.) A second Supplementary Examination in the same Session, in any subject of the Sessional Examinations shall in no case be granted.

(12.) Undergraduates wishing to appear as candidates at any Examination other than Sessional Examinations, shall be required to give notice of their intention, to the Secretary of the Faculty, at least one week before the date of such examination.

(13.) Students are forbidden to take any book or manuscript into the Examination Hall, except by direction of the Examiner, or to give or receive assistance, or to hold any communication with one another at the Examinations. If a student violates this rule he shall either lose his session or suffer such penalty as the Faculty may see fit to impose.

§ XI.—DEGREES WITH HONOURS.—(1.) An undergraduate shall be allowed, during the Third and Fourth Years of his Course, to restrict his attention to a more limited range of subjects than that demanded of candidates for an ordinary degree, by entering upon one of the Honours Courses, provided he has either attained both a First Class standing at the previous Sessional Examination in the subject corresponding to that of the Honours Course selected, and a satisfactory standing in the other subjects of the course, or received the special permission of the Faculty.

(2.) Honours Courses are provided in the following departments, viz., (1.) Classics, (2.) Latin and English, (3.) Greek and English, (4.) English and English History, (5.) Mental and Moral Philosophy (including Political Economy), (6.) Mathematics and Mathematical Physics, (7.) Experimental Physics and Chemistry. Undergraduates in Arts may become candidates in any one of the above departments; undergraduates in Letters in any one of departments 4, 5, 6, and 7; undergraduates in Science in either of the departments 6 and 7.

(3.) A candidate for Honours in any of the above departments shall be required to attend the Advanced Classes provided in the subjects of such department (§ 1), to make progress satisfactory to the Professors who conduct such classes, and to pass the examinations in the subjects of such department; and he shall be allowed to omit, from the subjects demanded of candidates for the ordinary degree, certain subjects specified below.

(4.) The examinations for Honours shall be held at the end of the Fourth Session. But a candidate for Honours may defer his examinations in the subjects of his Honours Course until a year after he has passed the Sessional Examinations in the ordinary subjects of the Fourth Year; in which case, however, such candidate shall not be entitled to his Degree until he has passed the Honours Examination.

(5.) A candidate for Honours, who attains a First or Second Class standing at the examination for Honours, shall obtain the Degree of Bachelor with First or Second Rank Honours respectively in such department.

(6.) A candidate who fails to obtain Honours shall receive the ordinary Degree, if his examinations in the subjects of the ordinary course and in those of the department of Honours in which he has studied, are of sufficient merit.

(7.) Candidates for Honours in Classics may, in each of the Third and Fourth Years, omit any two of the subjects of those years, except Latin and Greek.

They shall be examined in the following subjects:

LATIN.—Plautus : *Miles Gloriosus*.
Terence : *Adelphi*.
Virgil : *Georgics*, Books I., II., IV.
Horace : *Epidætæ*, Books I., II.; *Arts Poetica*.
Juvenal : *Satires*, VI., VII., XIII.
Cicero : *De Oratore*.
Lucy : Books XXI., XXII.
Tacitus : *Germania*; *Annales*, Book II.

Composition.—Latin Prose.

Literature.—Centwell's History of Latin Literature, selected chapters.

GREEK.—Aeschylus : *Eumenides*.
Sophocles : *Oedipus Rex*.
Aeschophrus : *The Knights*.
Homer : *Odyssey*, Books V., VI., VII., VIII.
Thucydides : Book II.
Plato : *Phædo*.
Demosthenes : *De Corone*.
Aristotle : *Poetics*.

Composition.—Greek Prose (in 1890).

Philology.—Pell's Introduction to Greek and Latin Etymology; Comparative Philology by Papillon.

Literature.—Mahaffy's History of Greek Literature, the portions bearing on the authors and subjects read in the undergraduate course; Donaldson's Theatre of the Greeks, selected portions.

(8.) Candidates for Honours in Latin and English may, in each of the Third and Fourth Years of their course, omit any two of the subjects of those years, except Latin and English, the Third and Fourth Years English Class being regarded, however, in the case of candidates for Honours in this department, not as an ordinary subject but as a part of the Honours Course. They shall be examined in the following subjects, viz.:

LATIN.

The Latin subjects prescribed for the Honours Course in Classics.

ENGLISH.

(1.) The historical development of the language and literature to the year 1600, including a minute acquaintance with Sweet's Anglo-Saxon Reader (exclusive of poetical selections), Sweet's First and Second Middle English Primers, Chaucer's Prologue, Knight's Tale, and Naso's Prestos Tale (Clar. Press Ed.), and Lounsbury's History of the English Language.

(2.) Detailed History of the Elizabethan and Early Stuart Literature, including a general acquaintance with the more important works of the period, and an intimate knowledge of the following:—

- Spenser : Faerie Queen, Bk. II.
- Marlowe : Doctor Faustus, Edward II.
- Gronow : Friar Bacon and Friar Bungay.
- Sidney : Apologie for Poesie.
- Hooker : Ecclesiastical Polity, Book I.
- Bacon : Advancement of Learning, Select Essays.
- Shakespeare : Henry VI., Pt. II & III., Romeo and Juliet, Lear, Henry VIII., Two Noble Kinsmen.

(3.) A general acquaintance with the genius and work of Robert Browning and a special acquaintance with the following poems:—My Last Duchess, A Woman's Last Ward, Confessions, Cioce, Andrea del Sarto, The Bishop Orders his Tomb, An Epistle, A Death in the Desert, Saul, Rabbi Ben Ezra, Das Alter Viam, Paghs Sight, Abt Vogler, Up at a Villa, Amphion, Caliban on Setebos.

Books recommended: Strelley's History of Elizabethan Literature (Macmillan), Clarendon Press and Arber Editions of Elizabethan works. Selections from Browning, First and Second Series.

(9.) Candidates for Honours in Greek and English may, in each of the Third and Fourth Years of their course, omit any two of the subjects of those years, except Greek and English, the Third and Fourth Years English Class being regarded, however, in the case of candidates for Honours in this department, not as an ordinary subject, but as a part of the Honours Course. They shall be examined in the following subjects, viz.:

GREEK.

The Greek subjects prescribed for the Honours Course in Classics.

ENGLISH.

The English subjects prescribed for the Honours Course in Latin and English.

(10.) Candidates for Honours in English and English History may, in each of the Third and Fourth Years of their course, omit any two of the subjects of those years, except English and History, the Third and Fourth Years English Class being regarded, however, in the case of candidates for Honours in this department, not as an ordinary subject, but as a part of the Honours Course. They shall be examined in the following subjects, viz.:

ENGLISH.

The English subjects prescribed for the Honours Course in Latin and English.

ENGLISH HISTORY.

A minute investigation of English History from A. D. 1652-1659.

Books recommended: Green's History of the English People, vol. 5; Lingard's History of England, vols. I-III; Milner's Constitutional History of England, Chap. vii.; Hall's History of the Commonwealth; H. E. G. Tarlton's History of Cromwell; Green's History of the Great Rebellion; Macaulay's Life of Milton; Carlyle's Life of Cromwell; Froude's Life of Gladstone; Baynes's Chief Actors in the Puritan Revolution.

(11.) Candidates for Honours in Mental and Moral Philosophy may in the Third Year of their Course omit any one and, in the Fourth Year, any three of the subjects of those years, except Metaphysics, Ethics and Political Economy, all of which must be taken in the Third Year. They shall be examined in the following subjects:

MENTAL PHILOSOPHY.

Plato's *Timaeus*.

Locke's *Essay on Human Understanding*: Books II. and IV.

Fraser's Selections from Berkeley.

Hume's *Treatise on Human Nature*, vol. I. (with Green's Introduction).

Kant's *Critique of Pure Reason* (Stirling's Translation).

Reid's *Essays*, VI.

Allison's *Essays on the Principles of Taste*.

Cousin's *Philosophy of the Beautiful*.

Mill's *Logic*, Book III, chaps. 8 and 9.

Hamilton's *Lectures on Metaphysics and Logic*.

MORAL PHILOSOPHY.

Plato's *Republic*, (omitting Books VIII. and IX.).

Aristotle's *Nicomachean Ethics*, (omitting Books VI. and VII.).

Kant's *Theory of Ethics*. (Abbott.)

Green's *Pragmatism in Ethics*.

Spencer's *Data of Ethics*.

Sidgwick's *Methods of Ethics*.

A general acquaintance with the History of Philosophy will be expected.

POLITICAL ECONOMY.

- Smith's Wealth of Nations.
- Cairnes' Principles of Political Economy.
- Carey's Principles of Social Science.
- Roscher's Political Economy.
- Fawcett's Protection and Free Trade.
- Carey's Harmony of Interests.
- George's Progress and Poverty.

(12.) Candidates for Honours in Mathematics and Mathematical Physics may omit in the Third Year any two, and in the Fourth Year any three, of the subjects of those years, except Physics and Dynamics. The Dynamics class must be taken in the Third Year. They shall be examined in the following subjects, viz. :

MATHEMATICS.

TRIGONOMETRY.—Angular Analysis; Solution of Spherical Triangles; Napier's Analogies; with application to Astronomical Problems.

ANALYTICAL GEOMETRY.—The Conic Sections, and the Equation of the Second Degree between two variables; as far as set forth in any standard treatise on the subject.

CALCULUS.—Differential and Integral, as set forth in any standard treatises on these subjects. Differential Equations (selected course), with practical applications to Physical Problems.

MATHEMATICAL PHYSICS.

Selected portions of Kinematics, Dynamics of a Particle, Rigid Dynamics, Hydrodynamics, Thermodynamics, and Electrodynamics, illustrating the application of the Higher Mathematics to the study of physical problems.

(13.) Candidates for Honours in Experimental Physics and Chemistry may, in the Third Year, omit any one, and in the Fourth Year, any two, of the subjects of those years, except Physics, Practical Physics, Dynamics, and Organic and Practical Chemistry. They shall be examined in the following subjects :

EXPERIMENTAL PHYSICS.

Candidates shall be required to show a general knowledge of Abstract Dynamics, the Properties of Solids and Fluids, Heat, Electricity and Magnetism, Light and Radiant Heat, and Sound, so far as these subjects can be treated by elementary mathematical methods.

They shall be required to show an intimate knowledge of the following original memoirs: Joule's papers on the determination of the Mechanical Equivalent of Heat, contained in his Scientific Papers (Taylor & Francis) vol. I, pp. 123, 172, 238, 342, 422.—Faraday's Experimental Researches in Electricity (Quaritch), vol. I, Series III., IV., V., VI., VII., VIII.

They shall be required also to show ability to determine practically the more important physical constants, such as Density, Specific Heat, Electrical Resistance, &c.

CHEMISTRY.

ORGANIC CHEMISTRY.—Principles of Elementary Analysis. Practical Estimation of Carbon, Hydrogen, Oxygen and Nitrogen. Principles of Classification. Hydrocarbons, Chlorides, &c. Mononitric and Poly-nitrous Alcohols, Aldehydes, Volatile Fatty Acids, Compound Esters, Ethers of Glycerine, Saponification, Organic Acids, Carbonylates. Fermentation. Transformations of the Alcohols, and Laboratory Determinations. Aromatic Group, Compound Ammonia. Alkaloids.

Books recommended: Wurtz's Chemistry, Organic part. Enoch & Schreiber's Chemistry.

For reference: Watt's Dictionary of Chemistry, and other reference works in the Balance Room Library.

PRACTICAL CHEMISTRY.—Candidates will be required to show familiarity with modes of Manipulation, Preparation of Gases, Preparation of Laboratory Re-agents, Systematic Method of Testing for bases and for acids; also proficiency in one of the following:—(1) Quantitative Estimation of Metallic Ores, (2) de. of Inorganic Poisons, (3) Soil Analysis, (4) Sanitary Analysis. Special work will be prescribed according to the department selected by the candidate, and suitable books suggested.

Books recommended for general work: Mendenhall's Practical Chemistry, French's Qualitative Analysis, Thorpe, or Appleton. Wooster's Mineral Analysis.

§ XII.—SHORT COURSES OF STUDY FOR GENERAL STUDENTS.—(1.) For the benefit of students who may wish to spend but a short period of time at the University, the Time Table has been so arranged that the following combinations of classes may be made. The details of the subjects studied in these classes will be found under Courses of Instruction, (§ § I. and XII.).

(2.) To students who attend the classes of the following courses with regularity and pass the Sessional Examinations (§ XI.) in the subjects thereof, certificates will be issued stating the nature of the course pursued and the degree of success attained.

(3.) Two Years Course of Liberal Studies.—*First Year.*—Two of the three—Latin, French, German; English; Mathematics or History and Political Economy; Inorganic Chemistry or Botany. *Second Year.*—Two of the three—Latin, French, German; English Literature; Political Economy or Logic; Physics or Inorganic Chemistry. (The alternative subjects so far as the Time Table may permit.)

(4.) Two Years Course preparatory to study of Medicine or to Chemical Work.—*First Year.*—French or German, English, Mathematics, Botany, Inorganic Chemistry. *Second Year.*—French or German, English Literature, Physics, Organic Chemistry, Practical Chemistry.

(5.) Three Years Course preparatory to the study of Engineering.—*First Year*.—French, German, English, Mathematics, Inorganic Chemistry. *Second Year*.—German, English Literature, Mathematics, Physics, Practical Chemistry. *Third Year*.—German, Advanced Mathematics, Physics, Dynamics, Practical Chemistry.

(6.) Two Years Course preparatory to Journalistic work.—*First Year*.—French, English Literature (1st and 2nd year classes), History (3rd and 4th year classes), Logic and Psychology or Political Economy. *Second Year*.—French, Advanced English Literature, Ethics, Political Economy or Metaphysics, Constitutional History, Constitutional Law.

(7.) Two Years Course preparatory to Commercial work.—*First Year*.—French, German, English, Mathematics, Chemistry. *Second Year*.—French, German, English Literature, Political Economy, Physics, Law of Contracts.

§ XIII.—MEDALS AND PRIZES.

(The Senate reserves to itself the right of withholding Medals and Prizes in cases in which sufficient merit is not shown.)

THE GOVERNOR-GENERAL'S GOLD MEDAL, which is offered by His Excellency the Governor-General of the Dominion of Canada, will be awarded to the Undergraduate standing highest among those taking Honours in the department of Classics, the winners of other medals being excluded. In the event of its not being awarded in this department, it may be awarded either in the department of Latin and English, or in that of Greek and English.

THE GOVERNOR-GENERAL'S SILVER MEDAL, which is offered by His Excellency the Governor-General of the Dominions of Canada, will be awarded to the Undergraduate standing highest among those taking Honours in Mental and Moral Philosophy, the winners of other medals being excluded. In the event of its not being awarded in this department of Honours, it may be awarded in some other department.

THE SIR WM. YOUNG MEDAL, founded by bequest of the late Hon. Sir Wm. Young, will be awarded to the Undergraduate standing highest among those taking Honours in the department of Mathematics and Mathematical Physics, the winners of other medals being excluded.

THE DEMILL GOLD MEDAL, which is provided by the Alumni Association, in memory of the late James DeMill, M.A., Professor of Rhetoric and History, will be awarded to the

Undergraduate standing highest among those taking Honours in the department of English and English History, the winners of other medals being excluded.

THE MACKENZIE GOLD MEDAL, which is provided by the Alumni Association in memory of the late John James MacKenzie, M.A., Ph.D., Professor of Physics, will be awarded to the Undergraduate standing highest among those taking Honours in the department of Experimental Physics and Chemistry, the winners of other medals being excluded.

NORTH BRITISH SOCIETY BURSARY.—A Bursary of the annual value of \$60, has been founded in connection with Dalhousie College by the North British Society of Halifax, to be competed for at the Sessional Examination of the Second Year's Course in Arts, and held by the successful competitor for two years, namely, during the Third and Fourth Years of the Undergraduate Course in Arts. Candidates must be Undergraduates who have completed two years of the Curriculum, and must be eligible at the proper age, to be members of the North British Society. The next competition will take place in April, 1890.

THE WAVERTLEY PRIZE.—This Prize, the interest of an endowment of \$1000, will be awarded annually to the student of the Second Year Mathematical Class, who stands highest at the Sessional Examinations in the Mathematics of the year, the winner of the North British Society Bursary being excluded.

THE AVERY PRIZE.—This prize, the interest of \$500, bequeathed for this purpose by the late J. E. Avery, M.D., is offered for competition to the Undergraduates in Arts of the Fourth Year, who are not studying for Honours. It will be awarded to the Undergraduate who makes the highest average at the Sessional Examinations in the subjects of the classes attended in the Faculty of Arts.

THE EARLY ENGLISH TEXT SOCIETY'S PRIZE, which is offered annually by that Society, and consists of several volumes of the Society's publications, will be awarded to the Student standing highest in the subject of Early English Language and Literature at the Examinations for Honours in the department of English and English History.

THE NEW SHAKESPEARE SOCIETY'S PRIZE, which is offered annually by that Society, and consists of several volumes of the Society's publications, will be awarded to the student who stands highest in the subject of the plays of Shakespeare at the Sessional Examinations of the Second Year in English Literature.

§ XIV.—MUNRO EXHIBITIONS AND BURSARIES.—
 (1.) The following Exhibitions and Bursaries are offered by Gen. Munro, Esq., of New York, to be competed for at the beginning of the Session in each of the years 1888–9, 1889–90, 1890–91:

First Junior Exhibitions of \$150 a year, tenable for two years.
 Ten Junior Bursaries of \$100 a year, tenable for two years.
 Five Senior Exhibitions of \$200 a year, tenable for two years.
 Ten Senior Bursaries of \$150 a year, tenable for two years.

(2.) The *Junior Exhibitions and Bursaries* are offered for competition to candidates for matriculation in Arts, provided they have previously neither matriculated* at any University conferring Degrees in Arts, nor appeared as candidates for these Exhibitions and Bursaries more than once.

(3.) The *Senior Exhibitions and Bursaries* are offered for competition to Undergraduates entering the Third Year of the Arts Course. Candidates must have completed the Second Year of the Arts Course, either at this or at some other University; but they must not have entered upon the Third Year. They must also have matriculated* within three years or within two years of the date of the competition, according as they may have entered upon their course as Undergraduates of the First or of the Second Year, respectively.

(4.) The *Junior Exhibitions and Bursaries* shall be held during two years, provided the holder (*a*) attend in consecutive years the classes proper to the first and second years of the Arts Course to the satisfaction of the Faculty, Greek being taken as one of the subjects of each of those years, (*b*) † pass in all the subjects of the Sessional Examinations of the First Year, and attain a Second Class standing in at least one of them, and (*c*) pass either the Sessional Examinations (§ x), or the Supplementary Examinations of the Second Year.

(5.) If a candidate, to whom a Junior Exhibition or Bursary has been awarded, is able to pass the Second Year Matriculation Examination, he may enter the Second Year; in which case, however, he shall hold his Exhibition or Bursary during that year only.

(6.) The *Senior Exhibitions and Bursaries* shall be held during the third and fourth years of the Arts Course, provided

* Matriculation consists in enrolling the name upon the Register of a University as an undergraduate, not in the mere passing of a Matriculation Examination.

† For the purposes of condition (b), Geometry and Algebra shall be reckoned as separate subjects.

the holder (*a*) attend in consecutive years the classes proper to the third and fourth years of the Arts Course, to the satisfaction of the Faculty, (*b*) pass in all the subjects at the Sessional Examinations of the third year, and either obtain a Second Class standing in one of them or obtain the favorable report of a Professor on work done in one of the departments of History, and (*c*) pass either the Sessional Examinations (§ x), or the Supplementary Examinations of the Fourth Year.

(7.) The annual amounts of the above Exhibitions and Bursaries will be paid in three instalments, the first on the first Monday after the Autumn Convocation, the second on the first Monday after the Christmas vacation, and the third on the day of the Spring Convocation, the payment of each instalment being dependent upon the fulfilment of the conditions of tenure at the date at which it becomes due.

(8.) Candidates are required to make application for these Exhibitions and Bursaries by means of the printed schedule inserted at the end of this Calendar. These schedules are to be filled up by candidates and sent with the certificates mentioned therein, to the President, so as to reach him on or before September 1st, 1888.

(9.) A certain standard of answering at the Examinations, fixed by the Faculty, will be required for obtaining any of the above Exhibitions and Bursaries. A higher standard will be required for Exhibitions than for Bursaries.

(10.) The Faculty shall in all cases decide as to the fulfilment of the above rules and conditions.

(11.) The Examinations for the Exhibitions and Bursaries will be held at the College on September 11th–14th, 1888.

(12.) The subjects of examination for the *Junior Exhibitions and Bursaries* of 1888–9, shall be as follows:—

1. *LATIN.*—^t Caesar, Gallic War, Book I, and Virgil, *Aeneid*, Book I.—*Grammar*: Accidence, Prosody, Scansion of Beowulf Verse.—*Text Book*: Smith's Latin Grammar.—*Composition*: Easy sentences to be translated into Latin Prose. **Text Books*: Smith's Principia Latina, Part IV., Exs. 1–35, or Arnold's Latin Prose Composition, Exs. 1–9, 21–49.

2. *GREEK.*—^t Xenophon, *Anabasis*, Book III., and *Symposium*, (Wiman's, pub. by J. Ally, Boston). *Grammars*: Accidence (omitting Accentuation), chief rules of Syntax. **Text Book*: Smith's

* These Text Books are mentioned to indicate in a general way the extent of knowledge required.

† The following are the classical books for 1888–90:

Latin:—Caesar, Gallic War, Books II. & III., and Virgil, *Aeneid*, Book I.

Greek:—Xenophon, *Anabasis*, Book III., and *Symposium* (Wiman's).

Greek Grammar.—Composition: Translation of simple sentences such as are found in the English-Greek Exercises in Smith's Latin Greek, Part I.

3. MATHEMATICS.—*Arithmetic*: the ordinary values of Arithmetic, Vulgar and Decimal Fractions, Proportion and Interest.—*Algebra*: as far as Simple Equations and Sards, with theory of Indices.—*Geometry*: First, Second and Third Books of Euclid or the subjects thereof.

4. ENGLISH.—*Language*: Grammar, Analysis, Writing from Dictation, Punctuation, Synthesis, Punctuation.—*History and Geography*: Outlines of English and Canadian History, and General Geography.

The relative values of these subjects shall be as follows: Classics, 250; Mathematics, 200; English, 200.

(13.) 1. The subjects of Examination for the Senior Exhibitions and Bursaries of 1888-9, shall be any two of the following groups:

A.—CLASSICS.

LATIN: *Horme*, Epoches; *Pline*, Selected Letters (Prichard and Bernard's edition, Clarendon Press, London).—Composition: An easy piece of English to be turned into Latin Prose. (For models, see Champneys and Randall's Easy Pieces for Latin Prose, 2nd series, Rivingtons, London.)

GREEK.—*Herodotus*, Book II.—Composition: Translation of simple passages. (For models, see Sidgwick's First Greek Writer.)

B.—MATHEMATICS.

ALGEBRA: An set forth in Colenso's, or Todhunter's or Wood's Algebra, exclusive of Continued Fractions and Diophantine Analysis.

TRIGONOMETRY: Analytical Plane; as far as, and including, DeMoivre's Theorem, with its application to the measurement of Circular Arcs, and the solution of the equation $x_n = \pm 1$.—Spherical; as far as, and including, Napier's Rules for the solution of Right-angled Triangles.

GEOMETRY: The First, Second, Third, Fourth and Sixth Books of Euclid, with the definitions of the Fifth; the first 21 propositions of the Eleventh Book.—Conic Sections:—The Parabola and the Ellipse, as set forth in Drew's Conic Sections. (The equivalents of these will be accepted, if the candidate has used other Text Books; which, however, he must, at the examination, specify.)

The examinations will not be confined to the text of the books mentioned, or of any others, but will include Exercises and Problems on the principles laid down in common by all standard treatises on the above subjects.

C.—ENGLISH AND HISTORY.

ENGLISH: Lounsbury's History of the English Language (Henry Holt & Co., N. Y.), to end of Part I; Spenser's Faerie Queen, Bk. I. (Clarendon Press); Shakespeare's King John, and The Merchant of Venice (Holt's Edition, Harper, N. Y.); Hudson's Scott (English Men of Letters Series); Sir W. Scott's Marmion, and Rob Roy.

CLASSICAL HISTORY AND GEOGRAPHY.—History of Greece to the death of Alexander. Geography of Greece, Asia and Africa.

* Text Books: Smith's Student's Greek; Tocer's Primer of Classical Geography.

Candidates shall be required to present themselves for examination in two of the above groups—A, B, C. They may select any two of these groups; but they will not be allowed to present themselves for examination in all three.

The relative values of the three groups will be the same.

Candidates must give notice to the President, of the groups in which they intend to present themselves for Examination.

2. The subjects of Examination for the Senior Exhibitions and Bursaries of 1888-9, shall be any two of the following groups:

A.—CLASSICS.

The subjects specified in (13) 1. of this section.

B.—MATHEMATICS.

The subjects specified in (13) 2. of this section.

C.—ENGLISH.

Lounsbury's History of the English Language (published by Henry Holt & Co., N. Y.), to end of Part I; Spenser's Faerie Queen, Book I. (Clarendon Press Edition); Shakespeare's King John, As You Like It, (Kohl's Edition, Harper Bros.); Nicolo's Ryens (Eng. Men of Letters Series); Byron's Childe Harold (Clarendon Press).

§ XV.—RESIDENCE.—All students are required to report their places of residence to the President on or before the day appointed in the University Almanac.

Persons who wish to take students as boarders must furnish the President with satisfactory references. A Register is kept by the President, containing the names of those persons who have satisfied this condition; and, for the convenience of students, a list of the names and addresses of such persons will be posted on the notice-board in the College hall at the beginning of the Session.

§ XVI.—CHURCH ATTENDANCE.—All students under twenty-one years of age, not residing with parents or guardians, are required to report to the President on or before the day appointed in the University Almanac, the churches they intend to make their places of worship during the Session. Intimation will be made to the various clergymen of the city, of the names and addresses of the students who have chosen their respective churches as places of worship.

§ XVII.—DISCIPLINE.—Any case of improper conduct on the part of a student, if brought to the notice of the Faculty, is to be investigated by the Faculty and reported to the Senate.

The Senate has authority to impose fines for damage done to property; to inflict at their discretion the penalties of admonition, suspension for a term, and expulsion, for neglect of duty, or for disorderly or improper conduct, and to use all other means deemed necessary for maintaining discipline.

The Professors have full power to maintain order in their respective classes, and may if necessary expel from the room during the class hour, any student persisting in disorderly conduct.

§ XVIII.—DEGREE OF MASTER OF ARTS.—A Bachelor of Arts, of at least three years standing, maintaining meanwhile a good reputation, shall be entitled to the Degree of Master of Arts, on producing a satisfactory thesis on some literary, philosophical or scientific subject. The subject must have been previously approved by the Faculty. The thesis must be handed in on or before 1st March. For fee see § xxi.

§ XIX.—ADMISSION AD EUNDUM GRADUM.—Bachelors or Masters of Arts, who have received their degrees in course at Universities approved by the Senate, shall be admitted ad eundem gradum in this University, on producing satisfactory proof of rank and character.—For fee see § xxi.

§ XX.—ACADEMIC COSTUME.—(1.) Bachelors and Masters of Arts and Bachelors of Science of this University, shall be entitled to wear gowns, of black stuff, and hoods. The distinctive part of the costume is the hood. The following are the kinds of hood appointed for the various degrees:—

B. A.—Black stuff lined with white silk and bordered with white fur.

M. A.—Black stuff lined with crimson silk.

B. Sc.—Black stuff, with a lining of white silk, bordered with crimson silk.

B. L.—Black stuff, with a lining of white silk, bordered with light blue silk.

(2.) Successful candidates for these degrees shall be required to appear at Convocation in the proper academic costume, to have the degrees conferred upon them. Degrees will be conferred in the absence of the candidate only by special permission of the Senate.

§ XXI.—FEES.—(1.) Fees are payable by students for Registration, for the use of the Gymnasium, for classes attended, and for certain examinations. They are payable in advance.

No student shall be allowed to enter a class until he has paid the proper fees.

The following is a statement of the fees payable by students generally, and of the special privileges granted to undergraduates:

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Registration Fee, payable annually by all students* | \$ 00 |
| Gymnasium Fee, payable annually by all male students attending more than one class, except registered students of the Halifax Medical College | 1 00 |
| Fee for each class attended, per Session + (except the Practical Chemistry and Physics Classes) | 6 00 |
| Fee for each of the Practical Chemistry and Physics Classes for every three months of practical work in Laboratory | 6 00 |
| Supplementary Examination Fee, payable on giving the notices required by § x. (17) | 2 00 |
| Special Examination Fee | 2 00 |

Undergraduates shall in general pay one fee of six dollars to each Professor whose classes they may attend as parts of the ordinary course; but in the case of the Professors of Classics and Mathematics fees shall be paid in both the first and second years of the course, in the case of the Professor of Modern Languages fees shall be paid twice by undergraduates taking either one language or two, since more than two years or two sessions for the degree. In the case of the Professor of Chemistry and Physics, a fee of \$0.00 per session shall be paid for the Practical Classes by undergraduates taking those classes, and in the case of the Professor of English Literature, a fee of \$0.00 shall be paid by undergraduates taking the third and fourth year English Class.—No fees are required for the Tutorial classes in Classics and Mathematics.—A candidate for Honours shall pay a fee of \$0.00 to each Professor whose advanced classes he may attend.

(2.) The graduation fees are as follows:

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Fee for the B. A. or B. L. or B. Sc. Diploma, which is payable by candidates before the Sessional Examinations of the Fourth Year, and will be returned in case of failure..... | 3 5 00 |
| Fee for M. A. Diploma, which must accompany the thesis, and will be returned if the Thesis is not sustained | 10 00 |
| Fee for B. A. or M. A., (ad eundem gradum)..... | 10 00 |

*Undergraduates who matriculated previously to 1884, shall pay a fee of \$1.00 annually.

† The English Classes of the First and Second Years, and the History and Physics Classes of the Third and Fourth Years, though extending over two sessions shall for the purpose of this rule be considered single classes. The Latin and Greek Classes of any one year shall also be considered one class.

Jury. The Royal Prerogative. History of the Law of Treason. The Liberty of the Person. The Liberty of the Press. History of Party Government. Origin and Development of the Cabinet System. History of the Reform Bills.

Text Book: *Tarvel-Langford's Constitutional History of England.*

Conflict of Laws.

One lecture per week.

Subjects of lectures:

Leading rules as to (1) personal capacity, (2) rights of property, (3) rights of obligation, (4) rights of succession, (5) family rights, (6) forms of legal acts. The use of courts by strangers. The effects of foreign judgments. Select cases upon the Conflict of Laws.

Text Book: *Dicey's Conflict.*

International Law.

One lecture per week.

Subjects of lectures:

Sources, Subjects, Objects and Sanctions of International Law. Sovereigns, Councils, Ambassadors. Rights and Duties of Neutral Powers. Contraband, Blockade, Rights of Search, Piracy, Seizure, Capture and Reception, Construction of Treaties, Extradition.

Text Book: *Wolsey's International Law.*

CRIMES.

Lecturer..... *Hon. Mr. STANHOPE, Q.C., D.C.L.*

One lecture per week.

Subjects of lectures:

Sources of Criminal Law. Felonies and Misdemeanours. Offences against property, against persons, against the Queen and Her Government, against Public Justice, against Public Peace, against Public Trade, against Public Morals. Conspiracy. Accessories. Offences after previous convictions.

Text Book: *Stephen's Digest of Criminal Law.*

REAL PROPERTY.

Lecturer..... *Hon. Mr. SHANNON, Q.C., D.C.L.*

One lecture per week.

Subjects of lectures:

Estates in Fee Simple; Estates for Life; Estates in Remainder, and Reversion; Joint-Tenancy and Tenancy in Common; Estates for Years; Landlord and Tenant; Easements; Diversions; Descent of Real and Personal Property.

Text Books: *Williams' Real Property, and Taylor's Leading Cases.*

Faculty of Law.

THE PRESIDENT, (*ex officio*.)

Professor: WELDON,

RUSSELL,

Lecturer: TOWNSEND, J.,

SHANNON,

GRIFFIN,

PATRICK,

HARRINGTON.

Dean of the Faculty: PROFESSOR WELDON.
Secretary of the Faculty: PROFESSOR RUSSELL.

XXII.—COURSES OF LECTURES.

The following courses of lectures, to be given in the Session of 1888-9, will begin on the 4th September, 1888, and end on the 15th February, 1889.

CONSTITUTIONAL AND INTERNATIONAL LAW.

(*George Murray Professorship.*)

Professor..... *R. C. WELDON, M.A., Ph.D.*

CONSTITUTIONAL LAW.

Two lectures per week.

Subjects of lectures:

The written Code of the Constitution: Magna Charta, Petition of Right, *Habeas Corpus Act*, Bill of Rights, Act of Settlement, Law of Parliament. Select cases in Constitutional Law. British North America Act.

CONSTITUTIONAL HISTORY.

Two lectures per week.

Subjects of lectures:

Anglo-Saxon Royalty. The Judicial System of the Anglo-Saxons. The Witanagemot. Feudalism in England. Origin and Growth of the two Houses of Parliament. Origin and Development of Trial by

CONTRACTS.

Lecturer..... PROFESSOR RUSSELL, A. M.

Two lectures per week.

Subjects of lectures:

Definition of terms; agreement, consideration, proposal, acceptance, promise, &c. Persons who may contract, principal and agent. Disability arising from infancy, coveture, lunacy, intoxication, &c. Express and implied contracts. Verbal and written contracts. Specialities. Statutory requirements as to validity or authentication of contracts; Statute of Frauds. Causes vitiating agreements; mistake, fraud, duress, &c. Discharge of contracts, rescission, performance, payment, release, merger, &c. Leading cases.

Text Book: *Finch-Cox.*

SALES OF PERSONAL PROPERTY.

Lecturer..... PROFESSOR RUSSELL,

Two lectures per week.

1888-9.

Subjects of lectures:

Capacity to buy and sell. Executed and executory contracts of sale. Statute of Frauds. Lord Tenterden's act. Rules as to passing of property. Reservation of *jus disponendi*. Stoppage in transitu. Condition, warranty, express and implied. Remedies of seller and buyer.

Text Book: *Benjamin on Sales.*

EQUITY JURISPRUDENCE.

Lecturer..... HON. MR. JUSTICE TOWNSHEND AND PROFESSOR RUSSELL,

Two lectures per week, extending over two years.

Subjects of lectures:

Treats., Mortgages, Fraud, Mistake, Specific Performance of Contracts, Administration of Debts and Assets. Election, Account, Discovery, Inspection.

Text Book: *Smith, H. A.*

MARINE INSURANCE.

Lecturer..... MR. GRAHAM, A. M., Q. C.

One lecture per week.

Subjects of lectures:

Parties to and Agents for Marine Insurance; The Policy; Durability; Misrepresentation; Concealment; Warranties; General and Particular Average; Total Loss; Abandonment.

Text Book: *Arcard.*

TORTS.

Lecturer..... MR. PATANT, A. M.

One lecture per week.

Subjects of lectures:

Definitions. Torts considered with references to Crimes and Contract. Defect, Slander and Libel. Malicious Prosecution. Conspiracy, Assault and Battery. False Imprisonment. Enticement and Seduction. Trespass to Property. Conversion. Violation of Water Rights and Rights of Support. Nuisance. Negligence.

Text Book: *Higgin.*

EVIDENCE.

Lecturer..... MR. HARRINGTON, Q. C.

One lecture per week.

[1888-9.]

Subjects of lectures:

Nature of Proof, Production and Effect of Evidence, Relevancy, Instruments of Evidence.

Text Books: *Greenland on Evidence; Judicature Act and Bills.*

PARTNERSHIP AND COMPANIES.

Lecturer..... MR. HARRINGTON, Q. C.

One lecture per week.

[1888-90.]

Subjects of lectures:

Constitution. Liability of partners *inter se* and to third persons. Charge of firm. Retirement of partners. Dissolution. Merging ventures. Joint-stock Companies. Canada Joint-stock Companies Act.

NEGOTIABLE INSTRUMENTS.

Lecturer..... PROFESSOR RUSSELL,

[1889-90.]

Two lectures per week.

Subjects of lectures:

Formal Requirements. Consideration. Indorsement and Transfer. Real and personal defenses. Over-due paper. Notice of Dishonour. Protest. Bill of note. Bonds, Debentures, &c.

Text Book: *Ames' Select Cases.*

§ XXIII.—THE ACADEMIC YEAR.—The academic year consists of one Session. The Session of 1888-9 will begin on the 4th of September, 1888, and end on the 15th of February, 1889.

§ XXIV.—ADMISSION OF STUDENTS.—(1.) Students may enter the University by (*a*) furnishing satisfactory references or certificates of good moral character, (*b*) entering their names in the Register, and (*c*) paying the prescribed fees.

(2.) Registered students may, on payment of the proper fees, (see page 59), enter any of the classes of the University.

(3.) Students who wish to obtain University Degrees must become undergraduates. They may become undergraduates by (*a*) passing either one of the Matriculating Examinations or a recognized equivalent, and (*b*) matriculating, *i. e.*, entering their names on the Matricula or Register of Undergraduates.

(4.) Students who are not undergraduates are known as General Students.

§ XXV.—DEGREE OF BACHELOR OF LAWS.—(1.) Candidates for the Degree of LL.B. are required to pass the Matriculation Examination, or a recognized equivalent, and to pass the Sessional Examinations in the subjects of the three years course of study.

(2.) Undergraduates of other Law Schools may, on producing satisfactory certificates of standing, be admitted to similar standing in this Law School if, on examination, they are found qualified to enter the classes proper to their years. But if their previous courses of study have not corresponded to the course on which they enter in this University, they may be required to take extra classes.

(3.) Graduates in Arts who have taken the classes of Constitutional History, Constitutional Law and Contracts, as parts of their Arts Course, shall be allowed to graduate in two years from the date of their entering upon the Law Course, provided they take in those years all the other classes specified.

§ XXVI.—MATRICULATION EXAMINATION.—(1.) Candidates for entrance into the First Year of the Course shall be examined in the following subjects, except in cases in which certain Examinations mentioned below shall have been already passed:

CLASSICS.—Xenophon—*Anabasis*, Books one and two. Cicero—The 1st and 4th Orations against Catiline. Virgil—*Epic*, Books one and two. Translation from English into Latin. Latin Grammar.

MATHEMATICS.—Arithmetic; Geometry—Books one, two and three of Euclid.

ENGLISH.—A paper on English Grammar, Composition.

HISTORY AND GEOGRAPHY.—English History; Geography, North America and Europe.

ELEMENTS OF BOOK-KEEPING.

Students may substitute French for Greek.

(2.) Persons desirous of appearing as candidates at this examination must give notice to the Dean of the Faculty on or before August 27th, 1888; and they shall be required to pay a fee of \$3.00 on the morning of the day of Examination.—The Examination will be held next Session on Monday, September 3rd, at 10 o'clock, A. M.

(3.) Graduates and Undergraduates in Arts of any recognized College or University, and articled clerks or law students who have passed the preliminary law examinations in any of the Provinces of the Dominion of Canada, or in Newfoundland, shall be admitted to the standing of Undergraduates of the First Year in the Faculty of Law, without passing any examination.

§ XXVII.—COURSE OF STUDY FOR DEGREE OF LL.B.

First Year.

- | | |
|----------------------------|---------------|
| 1. Real Property. | 3. Contracts. |
| 2. Crimes. | 4. Torts. |
| 5. Constitutional History. | |

Second Year.

- | | |
|----------------------|--------------------------------|
| 1. Equity. | 2. Sales of Personal Property. |
| 2. Evidence. | 4. Constitutional Law. |
| 5. Conflict of Laws. | |

Third Year.

- | | |
|----------------------------|-------------------------------|
| 1. International Law. | 3. Partnership and Companies. |
| 2. Insurance. | 4. Equity. |
| 5. Negotiable Instruments. | |

Undergraduates are required to attend with regularity the classes of their respective years. The extent of absence from prescribed classes which shall disqualify for the keeping of a Session shall be determined by the Faculty.

Note.—Third Year students in 1888-9 will also take the subject of Conflict of Laws transferred to the Second Year of the course.

The Faculty urgently recommend that students devote their whole time during Sessions to the work of the School, experience having proved that students who undertake office work in addition to the work of their classes, receive very little advantage from the lectures. The Course having been very considerably enlarged, the Faculty apprehend that students who are doing regular office work during Session, will find it quite impossible to pass with credit the required examinations.

§ XXVIII.—SESSIONAL EXAMINATIONS.—(1.) The Sessional Examinations will begin next Session on February 18th, 1889.

(2.) Students are forbidden to bring any book or manuscript into the Examination Hall, except by direction of the Examiner, or to give or receive assistance, or to hold any communication with one another at the Examinations. If a student violate this rule, he shall be excluded from the Sessional Examinations of the Session, and such other penalty shall be imposed as the Faculty may determine.

(3.) If an Undergraduate fail to pass in any subject or subjects of the Sessional Examinations, he shall be allowed a supplementary Examination in such subject or subjects at the beginning of any subsequent Session.

(4.) Undergraduates who wish to present themselves at a Supplementary Examination, must give notice to the Dean of the Faculty on or before August 27th, 1888.

(5.) The Supplementary Examination for the present year will begin September 3rd, at 10 o'clock, A. M. Fee \$5.00, payable on the morning of the Examination.

§ XXIX.—MOOT COURTS.—Moot courts will be held every fortnight, and will be presided over by some member of the Faculty, or a Barrister selected by the Faculty. Every candidate for a degree shall be required to take part in arguments at the Moot Court. The senior counsel on either side shall be required to file briefs with the Dean before noon of the day preceding that on which the case is argued. A record will be kept of the values assigned to the arguments made, and these values will be considered by the Faculty in recommending a candidate for his degree.

In addition to the Moot Courts under the supervision of the Faculty, a voluntary Moot Court has been organized by students of the First Year.

§ XXX.—MOCK PARLIAMENT.—The students have organized a Mock Parliament for the discussion of legal and constitutional questions. This Parliament is largely attended, and is found to be of great utility.

§ XXXI.—ACADEMIC COSTUME.—Bachelors of Laws are entitled to wear gowns and hoods. The gowns are similar to those worn by Barristers-at-Law. The hoods are of black silk stuff with a lining of white silk bordered with gold-coloured silk.

§ XXXII.—THE LIBRARY.—The Library has a good set of English and Canadian Reports, and will be found to contain almost all the books which an undergraduate will have occasion to consult.

§ XXXIII.—FEES.—The following are the fees payable by Students of the Faculty of Law. They are in all cases payable in advance.

Seats in the Lecture Room will not be assigned to Students until they have paid their Class Fees to the Dean.

Students are required to sign the University Register and pay their Class Fees on the first day of the term, at 10 A. M., in the office of the Law School.

| | |
|---------------------------------------------------------------------------------------------------------------------|---------|
| Registration Fee, payable only by general Students..... | \$ 2 00 |
| Fee for each class attended, per Session, payable by general students | 10 00 |
| Fee for the classes of the First Year, payable by undergraduates | 40 00 |
| Fee for the classes of the Second Year, payable by undergraduates | 40 00 |
| Fee for the classes of the Third Year, payable by undergraduates | 35 00 |
| Fee for LL.B. diplomas, which is payable before the final examination, and will be returned in case of failure..... | 10 00 |
| Fee for the Matriculation Examination..... | 5 00 |
| Fee for the Second Year Matriculation Examination..... | 10 00 |
| Fee for the Supplementary Examination..... | 5 00 |

Students of any year are permitted to attend lectures in the subjects of an earlier year without extra charge.

Faculty of Medicine.

THE PRESIDENT, (ex officio).

Professor : LAWSON.

Examiners : SOMER,

SINCLAIR,

LINDSAY,

CAMPBELL.

Secretary of the Faculty : DR. LINDSAY.

§ XXXIV.—COURSES OF INSTRUCTION.—I. Instruction is provided by the University in the following subjects of the Medical Curriculum :

L CHEMISTRY.

Professor CHURCH LAWSON, PH. D., LL. D.

Daily Lectures, 11 A. M.—12 M.

With experimental demonstrations.

Part I. INORGANIC.—Objects and nature of the Science. General Principles; Chemical Activity; Laws of Combination, by weight, by volume. The Elements; Equivalent and Atomic Numbers; Atomity, Nomenclature; Notation; Formulas; Equations. The Non-Metallic Elements and their compounds considered in detail. The Atmosphere. Water. Methods of Water Analysis. Mineral Waters, Carbonation; Respiration, Anhydrides. Acids. Manufactures of Chlorine compounds, Acids, Ammonia, &c.

The Metals: their physical and chemical characters; Classification, &c.; Salts; Bases; Acids; Radicals. The Metals and their compounds considered in detail. The Metals of the Alkalies, and the Alkali manufacturers. Classification and Separation of Bases. The Alkaline Earth Metals and their compounds. Magnesium Salts; Aluminim and the Earth Metals. Constitution of Silicates. Iron, its salts, and other compounds. Reduction of Iron Ores. In discussing the Metals, special attention is given to the Salts and other compounds of Mercury, Antimony, Arsenic, Bismuth, Silver, Copper, Lead, Tin, and the methods of testing for metallic poisons, their detection in organic mixtures and tissues, and their quantitative analysis.

Part II. ORGANIC—Theory of Organic Compounds, founded on Marsh Gas as a starting point. Functions of Organic Compounds. Principles of Classification. Saturated Hydrocarbons: Homologous Series. Monosaccharic Alcohols and their derivatives; Methyl Alcohol; Chloroform; Ethyl Alcohol; Ether; Nitroso Ether; Nitric Ether. Series of Saturated Hydrocarbons of Alcohols. Amines. Volatile Fatty Acids. Compound Esters. Aldehydes. Carboxylic. Polyatomic

Compounds. Fats. Saponification. Polyatomic and Polybasic Acids. Sugars and Starches. Fermentation. Glucosides. The Aromatic Compounds. Benzol; Phenol; Aniline, &c. The Natural Alkaloids: of Opium; Nicotine; Quinine; Strychnine; Caffeine; Morphine, &c. Albumen. Urea. Urine Acid. Urinary Calculi and other deposits; methods of determining their chemical composition, and presence of Glucose, Albumen, &c., in urine. Analysis of Milk. Alcohols Solubility, &c.

Text Book: *Fawcett's Manual of Chemistry* (English or American Edition); or Gruber's Edition of Wurtz's *Elements*.

PRACTICAL CHEMISTRY.

Systematic Course of Testing for Bases and Acids, with special exercises. Processes for detection of Poisons, examination of Urine for Glucose, Albumen, nature of Calculi and other deposits. Sanitary Analysis.—Atmospheric Air; Water; Mineral Waters.

Text Books: Macrae's *Practical Chemistry*. Rowman's *Medical Chemistry*. Special Tables are used in the Laboratory, and reference books may be consulted in the Balance Room.

II. BOTANY.

Professor CHURCH LAWSON, PH. D., LL. D.

Lectures three days a week.

The Vegetable Cell; its structure and contents. Typical and Transformed Cells; Tissues, Parenchyma, Protoplasm. Minute Structure and Development of the Root, Stem and Leaf. Structure and Development of the Flower, Fruit and Seed.

Vegetable Protoplasm; its structure, chemical character and movements; effects upon it of Light, Electricity, Irritation, Gravitation, Moisture, Gases.

Plant Growth; Relations of the plant to the soil and atmosphere. Diffusion, Osmosis, Absorption, Transpiration, Assimilation. Production of organic matter in the plant; Transpiration or Metabolism. Respiration. Vegetable Growth. Movements, of Chlorophyll, of organ (Circumvolution), Nystrophy.

Reproduction: Fertilization. The Seed, Germination, dependent upon moisture, free oxygen, temperature. Effects upon plants of extremes of temperature.

Classification of Plants: The Natural System of Classification. The distinctive structural characters and geographical distribution of the more important natural orders will be given, with special attention to those orders containing poisonous plants, and plants used in medicine.

Text Book: Goodall's *Physiological Botany* (being Vol. II. of Gray's *Botanical Text Book*.)

Field Book for Summer Work: Gray's *Manual of Botany of the Northern States*.

2. Students wishing to attend the above courses may do so either as General Students without preliminary examination,

or as Undergraduates. In either case they must enter their names in the University Register at the beginning of the Session.

3. In other subjects the necessary classes may be attended either at the Halifax Medical College, which is affiliated to this University, or at any recognised School of Medicine.

4. Attendance on classes by those registered as General Students, or as Undergraduates of other Faculties, will not qualify for Degree Examinations in this Faculty.

For information as to courses of instruction provided at the Halifax Medical College address the Registrar, A. W. H. Lindsay, M. D., 241 Pleasant St., Halifax.

§ XXXV. THE ACADEMIC YEAR.—The Academic Year consists of one session. The session of 1888-9 will begin on Monday, Oct. 29th, and continue six months.

In order to qualify for Degree Examinations, the Medical Academic Year must include attendance on at least two courses of 100 lectures each, or one such course and two of 50.

§ XXXVI. DEGREES.—Two Medical Degrees are conferred by this University, viz., Doctor of Medicine (M. D.) and Master of Surgery (C. M.); but neither degree is conferred on any person who does not at the same time obtain the other.

§ XXXVII. MATRICULATION EXAMINATIONS.—1. Candidates for medical degrees must give evidence of having obtained a satisfactory general education before entering upon the course of study qualifying for the degrees, by passing either one or other of the Matriculation Examinations of this Faculty or some other examination recognized by the Senate as sufficient.

2. The following are the subjects of the Lower Matriculation Examination :

(1.) ENGLISH LANGUAGE, including Grammar and Composition.

(2.) LATIN, including Grammar, Translation* from specified authors, and Translation of easy passages not taken from such authors.

(3.) ELEMENTS OF MATHEMATICS, comprising (a) Arithmetic, including Vulgar and Decimal Fractions, (b) Algebra, including Simple Equations, (c) Geometry, including the First Book of Euclid, with easy questions on the subject matter of the same.

* Latin for 1888, Caesar, Gallic War, Book I., or Virgil, *Aeneid*, Bk. I. Latin for 1889, Caesar, *Galli War. Ita. II. and III.*, or Virgil, *Aeneid*, Bk. I. Greek for 1888, Xenophon, *Anabasis*, Bk. IV., or Herodotus, *Witman's*, published by J. Allen, Boston.

Arithmetical Testimony, *Anastasis*, Bk. IV., or *Syntaxis* (as above).

In French, Voltaire's *Charles XII.*, Books I. and II., or *Scenes of Life*, in *Genoua*, Adler's Reader (Appleton & Co.), Switzer's *Arithmetick*, 5-4 and 16-17 (inclusive).

(4.) ELEMENTARY MECHANICS OF SOLIDS AND FLUIDS, comprising the Elements of Statics, Dynamics, and Hydrostatics—as treated in Blaikie's *Elements of Dynamics* (Thin, Edinburgh).

(5.) One of the following subjects:

- (a) Greek, including translation* from the original and Grammar.
- (b) French, including translation* from the original and Grammar.
- (c) German, including translation* from the original and Grammar.
- (d) Logic, as in Jevons' *Elementary Lessons in Logic* (Macmillan & Co.).
- (e) Elementary Chemistry.
- (f) Botany.

3. The following are the subjects of the Higher Matriculation Examination :

(1.) ENGLISH, including (a) writing a passage of English from dictation.

(b) English Composition, with the correction of sentences of bad English.

(c) Questions in English Grammar with analysis of sentences and derivation and definition of some common English words.

(d) Question in Geography and History, especially in the History of the British Islands and of English Literature.

(2.) LATIN, including Grammar and Translation of an easy passage from a Latin prose author*, and retranslation into Latin of a single passage of English (translated from a Latin author) the more difficult Latin words being given.

(3.) ARITHMETIC, the common rules including Vulgar and Decimal Fractions.

(4.) ELEMENTS OF MATHEMATICS, comprising (a) Geometry, Euclid, Books I. II. and III.; (b) Algebra, including Simple Equations.

(5.) ELEMENTS OF DYNAMICS (MECHANICS), comprising Elementary Kinematics, Statics, Kinetics and Hydrostatics, as treated in Blaikie's *Elements of Dynamics* (Thin, Edinburgh).

(6 and 7.) ANY TWO of the following subjects :

(a) Greek, including Grammar, Translation from specified authors*, and Translation of easy English sentences into Greek prose.

(b) French, including Grammar, Translation from specified authors*, and translation of easy English sentences into French.

(c) German, including Grammar, Translation from specified authors*, and translation of easy English sentences into German.

(d) Natural Philosophy, as in Balfour Stewart's *Elementary Physics* (Macmillan & Co.).

(e) Logic, as in Jevons' *Elementary Lessons in Logic* (Macmillan & Co.).

4. These examinations will be held on the 10th—13th October, 1888, in the College Hall. They will be conducted by instructors of the Arts Faculty.—Persons who wish to appear as candidates are required to give notice to the Secretary of the Faculty at least fourteen days before the date of Examination

* See footnote last page.

* These books are mentioned to show the extent of knowledge expected. Other books may of course be used by candidates.

(stating in such notice whether they are candidates for the Lower or Higher Examination, and specifying the elective subjects in which they wish to be examined), to enter their names in the Register of Candidates, and to pay a fee of Ten Dollars.

5. The Lower Examination satisfies the requirements of the General Medical Council of Great Britain as to the preliminary examination which must be passed by persons wishing to register as medical students; the Higher Examination satisfies the requirements of the University of Edinburgh in the same respect.—Certificates will be issued to candidates showing the subjects in which they passed and the extent to which their knowledge of these subjects was tested.—For classes in the Arts Faculty in which candidates may prepare for the above Examination, (see p. 43).

6. A certificate of the possession of a University Degree in Arts or of having passed the Matriculation Examination of the Provincial Medical Board of Nova Scotia shall be considered by this University sufficient evidence of satisfactory general education.

7. The Matriculation and Sessional Examination of any chartered University or College; and also the Preliminary Examination of any Medical Licensing Board in Her Majesty's dominions will be recognized pro fuita.

8. Candidates who may have passed in all subjects but one, either at the University or the Nova Scotia Medical Board Matriculation Examinations, may enter as undergraduates, and will be allowed after six months to pass a Supplementary Examination in the subject in which they previously failed.

§ XXXVIII.—DEGREE EXAMINATIONS.—Candidates for the Degrees of M.D. and C.M. shall be required to pass two examinations—the Primary and the Final M.D., C.M. examinations, and to have satisfied at the dates of the examinations certain conditions as to attendance on classes, etc.

§ XXXIX.—PRIMARY M.D. C.M. EXAMINATIONS.—I. Candidates for this examination shall be required to produce certificates to the following effect:—

(1.) Of having passed one of the Matriculation Examinations, or other examination recognized as sufficient, at least two academic years previously, and of having completed their sixteenth year at the date of passing said examination.

(2.) Of having, after passing the Matriculation or other equivalent examination, attended in the Halifax Medical College or in some School of Medicine approved by the Senate, two courses

of 100 lectures each, in each of the following subjects, viz:—Anatomy, Chemistry, Materia Medica and Physiology; and two courses of instruction of the same duration in Practical Anatomy, in the course of which they shall have dissected the whole body (*i.e.*, the head and neck and upper and lower extremities) at least twice.

(3.) Of having, after passing the Matriculation Examination, attended either in this University, in the Halifax Medical College, or in some other University or College, approved by the Senate, one course of instruction of fifty lessons each in each of the following subjects, viz, Botany and Practical Chemistry, and one course of twenty-five lectures or demonstrations in Histology.

(4.) Either of having, after passing the Matriculation Examination, attended at the Halifax Medical College or at some College approved by the Senate, one course of instruction of fifty lessons in Practical Pharmacy, or of having had three months' practice in the dispensing of drugs with a recognized apothecary or dispensing medical practitioner.

2. Candidates shall be required to pass written and oral examinations in Chemistry (including Practical Chemistry), Botany, Anatomy (including Practical Anatomy and Histology) Physiology and Materia Medica (including Practical Pharmacy).

3. Candidates may appear for examination in Botany one academic year after passing the Matriculation Examination on presentation of the certificates specified above so far as they apply to this subject.

4. The Primary M.D., C.M. Examinations will be held in the third week in April. Candidates are required to transmit the certificates specified above to the Secretary of the Faculty at least fourteen days before the date of the Examination, to enter their names in the Register of Undergraduates of the University before the date of the examination, and to pay before the date of the examination half the amount of the graduation fee. Should the candidate fail to pass, the fee will not be returned to him, but he will be admitted to any one subsequent Primary Examination without fee.

§ XL.—FINAL M.D., C.M. EXAMINATIONS.—I. Candidates for this examination shall be required to furnish certificates to the following effect, viz:—

(1.) That they have completed their twenty-first year or that they will have done so on or before the day of graduation. This certificate shall be signed by themselves.

(2.) Of having passed the Primary M. D., C. M. Examination at this University, or of having passed the same examination at the Halifax Medical College prior to its affiliation with this University, or of having been admitted to the standing of an under-graduate who has passed this examination on certificates from recognized medical schools.

(3.) Of either (a) having attended during four academic years at least two courses of lectures per year in subjects of the Primary and Final M. D., C. M. Examination either in this University or at the Halifax Medical College, or at some other recognised Medical School, or (b) having spent one calendar year in the study of Medicine in the office or offices of one or more registered medical practitioners and having subsequently attended during three academic years courses of lectures as above.

(4.) Of having attended at least two courses of lectures during at least one academic year at the Halifax Medical College, and of having paid the fees for one course of lectures in each of the subjects of the M. D., C. M. Examination at that College.

(5.) Of having, after passing the Matriculation Examination, attended at the Halifax Medical College, or at some School of Medicine approved by the Senate, two courses of 100 lectures each in each of the following subjects, viz.:—Principles and Practice of Surgery, Obstetrics and Diseases of Women and Children, and Principles and Practice of Medicine; two courses of lectures of fifty lectures each in each of the following subjects, viz.:—Clinical Medicine and Clinical Surgery; and one course of fifty lectures in Medical Jurisprudence.

(6.) Of having, after passing the Matriculation Examination, attended during one calendar year the practice of the Victoria General Hospital, or that of some other Hospital approved by the Senate.

(7.) Of having attended for at least six months the practice of a lying-in hospital, approved by the Senate, or of having attended at least six cases of midwifery under a recognised practitioner.

(8.) Of having obtained proficiency in the practice of Vaccination under a recognised practitioner.

2. Candidates will be required to pass written and oral examinations in the following subjects:—Principles and Practice of Medicine, Obstetrics and Diseases of Women and Children, Principles and Practice of Surgery, and Medical Jurisprudence. The oral examinations in Medicine and Surgery shall include clinical examinations conducted at the bedside, cases being submitted for diagnosis and treatment.

3. Candidates may appear for examination in Medical Jurisprudence alone, three academic years after passing the Matriculation Examination, on presentation of the certificates specified above so far as they apply to this subject.

4. This Examination will be held in the third week in April. Candidates are required to transmit the certificates specified above to the Secretary of the Faculty at least fourteen days before the date of the Examination, to enter their names in the register of under-graduates before the date of the examination, and to pay before the date of the examination one-half of the amount of the graduation fee. Should the candidate fail to pass, the fee will not be returned to him, but he will be admitted to any one subsequent Final Examination without fee.

§ XLII. ACADEMIC COSTUME.—1. Doctors of Medicine of this University shall be entitled to wear black stuff gowns and hoods. The hoods shall have a lining of scarlet silk bordered with white silk.

2. Successful candidates for this degree shall be required to appear at Convocation in academic costume to have the degrees conferred upon them. Degrees shall not be conferred in the absence of the candidate, except by special permission of the Senate.

§ XLII. FEES.—The following fees, payable by candidates for the degree of M. D., C. M., are in all cases payable in advance:—

| | |
|-------------------------------------------------|---------|
| Registration Fee..... | \$ 2.00 |
| Matriculation Examination Fee..... | 10.00 |
| Chemistry Class Fee..... | 12.00 |
| Chemistry Laboratory Fee (three months' course) | 6.00 |
| Botany Class Fee..... | 6.00 |
| Graduation Fee..... | 20.00 |

Institutions.

THE UNIVERSITY LIBRARY.

The General Library consists of about 2500 volumes, selected to meet the wants especially of students of the Faculty of Arts. It has no endowment funds, and its revenue is derived from the Registration Fees of Students of the Faculty of Arts, from fees for Supplementary and Special Examinations, and fines.

It contains the MACKENZIE COLLECTION of works on Mathematical and Physical Science, which was presented to the College by the relatives of the late Professor J. J. Mackenzie.

The following are the regulations with regard to the issue of books:

(1.) All students, graduates, and members of the Alumni Association shall be entitled to the use of the Library.

(2.) Such persons shall, on making a deposit of two dollars, have the further privilege of borrowing books from the Library; the deposit may at any time be withdrawn, provided the books have been returned in proper condition.

(3.) All books must be returned to the Library on or before the day appointed for that purpose in the University Almanac. Students who fail to comply with this rule shall forfeit half the amount of their deposit.

(4.) No student shall have his Attendance and Examination certificates signed unless he has returned the books he may have obtained from the Library.

(5.) Books damaged or lost shall be paid for by the borrower at such rates as the Librarian may direct.

(6.) The Library shall be open daily from 3 to 5 p. m.

During the past year, 358 volumes, exclusive of pamphlets, calendars, etc., have been added to the Library. The following have been presented:

[†] The Provincial Legislative Library and the Chinese Free Library being open to the public on the fulfillment of certain conditions, may also be used by Students.

By Mrs. Robert Monroe.—A collection of works, mainly on Norse languages and antiquities, made by the late Robert Monroe, viz.:—
Atlas for Nordisk Oldkyndighed, 21 vols.; Antiquarisk Tidsskrift, Sveda; Mémoires de la Société Royale des Antiquaires du Nord, 15 vols.; Norsk Oldskriftsblad, 3 vols.; Scripta Historiae Islandorum, 12 vols.; Tillæs till Arsbog for Nordisk Oldkyndighed, 12 pamphlets; Greenland's Historiske Mindesmærker, vols. II and III; Jónsson's Oldnordisk Ordbog; Thorpe's Northern Mythology, 3 vols.; Guide to Northern Archaeology, 2 copies; Læsing's Chronicles of the Kings of Norway, 3 vols.; Wheaton's History of the Northmen; Rafa's Fasereyng Saga; Ríkla's Tales and Traditions of the Eikinso; Iceland, Greenland and the Faroe Islands; Smith's Discovery of America by the Northmen; Vestiges d'Assebo et de Séborg; Congrès International des Américanistes, 8 vols.; Leckie's Discovery of America; Hyerton's Fligt; Hollberg's Peter Paar; Bayliss's Old-Norse Grammar; Rask's Danish Grammar; Lind's Method of Learning Danish; Marsh's Old-Icelandic Grammar; Lund's Danish and English Idioms; English and Danish Dictionary; Engelsk-Dansk Ordbog; Dansk-Engelsk Ordbog; Cleary & Vigfusson's Icelandic-English Dictionary; Peterham's Anglo-Saxon Literature in England; Antiquités Romaines, 2 vols.; Atlas d'Archéologie du Nord and Texte Explicative, 2 vols.; Archaeology of the United States; Antiquités Américaines; Cabinet d'Antiquités Américaines à Capeshaugue, Rapport Ethnographique par Rafa; La Construction des Salles dites des Géants par le Roi de Danemark; Simpson's Archaeology, its Past and Future; Thomsen's Northmen in Iceland; Worsaae's Discours devant la Soc. Roy. des Antiquaires du Nord.

By R. Sulyevich, Esq.—Deputy Minister of Justice.—The Encyclopaedia Britannica, Vol. XXII.

By Prof. MacGregor.—An Elementary Treatise of Kinematics and Dynamics by J. G. MacGregor; Dalhousie Gazette, vols. I-IV. [bound in one vol.]; Scientific Papers, by J. J. Mackenzie; Census of Nova Scotia, 1861; The Works of President Edwards, the Younger, 2 vols.; General History of the Christian Church, by John Brown, 2 vols.; Dictionary of the Aoidhítíomhais Language.

By Prof. Seth.—Peter's Translation of Aristotle's Ethics; Fleming's Vocabulary of Philosophy, 4th Ed.

By President Forrest.—Schiller's Sämtliche Werke.

By Mr. Howard Murray, B. A.—Kipper's Atlas Antiquus; Sandwall's Elements of Trigonometry; Harmer's Choro Pro Cincario; Biggs' Xenophon's Cyropaedia, Bks. IV, and V.; Solgårdske Scenes from the Greek Dramatists, 4 vols.; Church & Brodrick's Tacitus; Hesiod's Olympos and Philippic Orations of Demosthenes; Colenso's Trigonometry; Mission Morale de l'Art par A. Boulland.

By Mr. W. H. Moore.—A Comparative Grammar of the Anglo-Saxon Language, by F. A. March.

By Mr. D. A. Murray, B. A.—Angel's Geometry, 2 vols.

By Macmillan & Co. (the Publishers).—Todhunter's Analytical Statics, 5th edit.; Scott's Marion, ed. M. Macmillan; Paradise Lost, Bks. I. & II., ed. M. Macmillan; Geikie's Teaching of Geography; Calvert's School Readings in the Greek Testament; Stories from

Ovid's Metamorphoses, ed. Bond & Walpole; Cesare's Helvetian War, ed. Welch & Duffield; Hall & Knight's Higher Algebra; Wood's Second School Poetry Book; Burdett's History of England for Beginners; Stewart & Gee's Lessons in Elementary Practical Physics, Vol. II.; Cohen's Practical Organic Chemistry; Wilhelms Tell, ed. Fausch; Remsen's Elements of Chemistry; Hartley's Quantitative Analysis; Cesare's Gallic War, VII., ed. Bond & Walpole; Smith's Algebra; Wheeler's College History of India; Goldsmith's Traveller and Deserted Village, ed. Barrett; Much Adn Almost Nothing, ed. Delighton; Welch & Duffield's Latin Accidence; Analysis, Bks. I-VIII., ed. Wells; Selections from Ariosto, ed. Bond and Walpole; Polybius' Achaean League ed. Capes; Aeneid, Bk. VII., ed. Page; Gekko's Elementary Geography of the British Isles; Modena, ed. Verzel.

By Abington, (the Publishers).—Cornelio's Clima, ed. Hartington; Sand's Maitre Mossidan, ed. Parry; l'Enfant de George Sand, ed. Jeoff; Young's Questions on Physics.

By Blackwood & Sons, (the Publishers).—Scottish Metaphysics Reconstruction.

Also, Proceedings of the Royal Society of Canada, 1885, by the Society.

Report of the Superintendent of Protestant Schools in Manitoba, by the Superintendent.

Report of the Smithsonian Institution, 1885, Pt. I., by the Institution, Macoun's Catalogue of Canadian Plants, Pt. III., by the Geological, etc., Survey of Canada.

Report of the Fruit Growers' Association of Nova Scotia, by the Association.

Proceedings of the N. S. Institute of Natural Sciences, by the Institute.

Calendars, Registers, etc., by the following: University College, Dundee; Glasgow University; Acadia College; Marquette College; College of Ottawa; McGill College; Harvard University; Edinburgh University; Aberdeen University; University of Toronto; Trinity College, Toronto; Lehigh University; Dartmouth University; Lafayette College; Vassar College.

THE UNIVERSITY MUSEUM.

The Museum * consists chiefly of the THOMAS McCULLOCH and the PATTERSON COLLECTIONS.

The THOMAS McCULLOCH COLLECTION was presented to the University in 1884, by the Rev. William McCulloch, D. D., of Truro, with a fund of \$1400 for its maintenance and management. This Collection formed the museum of Prof. Thomas McCulloch, who occupied the Chair of Natural Philosophy from 1863 to 1865. It contains a large and valuable collection of birds, especially of the native birds of the Maritime Provinces; collections of shells, fossils, minerals and rock specimens, made in part by Rev. Thomas McCulloch, D. D., the first President of the College, and collections of dried specimens of native plants.

PATTERSON COLLECTION.—Rev. G. Patterson, D. D., has kindly offered the College a very fine collection of Indian Antiquities, which will be removed to Halifax as soon as suitable accommodation can be provided.

Donations of Dried Plants from the Pacific Islands and Australia have also been made by Rev. Hugh Robertson and Rev. Joseph Annand, M. A., New Hebrides.

THE GYMNASIUM.

The Gymnasium is provided with apparatus which was purchased by funds contributed for the most part by former students.

Instruction is furnished by a competent Gymnat.

The following are the general regulations for the use of the Gymnasium:

(1.) All male students, graduates, and members of the Alumni Association shall, on paying the sessional fee, be entitled to the use of the Gymnasium.

(2.) Students shall be entitled to instruction in gymnastics without the payment of any additional fee.

* The Provincial Museum, which contains collections illustrating the Mineralogy, Geology, and Zoology of the Province, is open to the public daily, and may be used by Students.

(3.) Graduates and members of the Alumni Association shall be admitted to the classes, on payment of a fee of three dollars.

Gold and Silver Badges are offered by the President for competition at the close of the session.

The successful competitors for these Badges have been as follows:—

| | |
|------------------------|-----------------|
| 1882-3—Gold Badge..... | H. W. Rogers. |
| Silver Badge | W. R. Taylor. |
| 1883-4—Gold Badge..... | W. R. Taylor. |
| Silver Badge | A. W. Lewis. |
| 1884-5—Gold Badge..... | A. W. Lewis. |
| Silver Badge | A. M. Morrison. |
| 1885-6—Gold Badge..... | A. M. Morrison. |
| Silver Badge | F. J. Stewart. |
| Special Prize..... | J. J. Buchanan. |
| 1886-7—Gold Badge..... | J. J. Buchanan. |
| Silver Badge | V. G. Frazer. |
| 1887-8—Gold Badge..... | J. M. Davison. |
| Silver Badge | V. G. Frazer. |

University Lists.

DEGREES

Conferred April 26th, 1888.

MASTERS OF ARTS.

HIRAM HENRY KIRKWOOD FITZPATRICK, Scotburn, Pictou Co., N. S.
ROBERT McDONALD LANGILLE..... River John, Pictou Co., N. S.

BACHELORS OF ARTS.

| | |
|----------------------------------|---------------------------------|
| DANIEL McDONALD CLARKIE..... | West River, Pictou Co., N. S. |
| WILLARD HILL FULTON..... | Halifax, N. S. |
| DAVID KEEZIE GRANT..... | Riverton, Pictou Co., N. S. |
| GEORGE MILLAR JOHNSON..... | Upper Stewiacke, N. S. |
| WILLIAM MACDONALD..... | Pictou, N. S. |
| HENRY MARTHY MACKAY..... | Plainfield, Pictou Co., N. S. |
| WILLIAM JOHN MCKENZIE..... | West Bay, C. B. |
| SAMUEL JOHN MCLENNAN..... | Sydney, C. B. |
| ANDREW WATTS MCLEOD..... | Densilbridge, P. E. I. |
| GEORGE MACLEOD..... | Murray River, P. E. I. |
| JOHN ALEXANDER MATHERSON..... | Boslandario, C. B. |
| ALEXANDER McGAGHTY MORRISON..... | Dartmouth, N. S. |
| THOMAS REGINALD ROBINSON..... | Annapolis, N. S. |
| DAVID SOLOAN..... | Windsor, N. S. |
| JOHN SANDERS SUTHERLAND..... | St. Jannes, Charlotte Co., N.B. |

BACHELORS OF LAW.

| | |
|-----------------------------------|-------------------|
| ARMSTRONG, ERNEST HOWARD..... | Kingston, N. S. |
| CAMPBELL, JOHN ROY, JR..... | Dorchester, N. B. |
| GERDINE, CHARLES ERNEST..... | Astigianish, |
| JONES, HARRY TREADWAY..... | Halifax, |
| MACKAY, ADAMS ARCHIBALD, B.A..... | Wallace, |
| MACKIE, EDGAR ALLISON..... | Annapolis, |
| MCREADY, CHARLES ALEXANDER..... | Moncton, N. B. |
| MCJENIE, HECTOR..... | Pictou, |
| MCLENNAN, DANIEL..... | Port Hood, C. B. |
| MORRISON, AULAY..... | Cow Bay, C. B. |

GENERAL PASS LIST.

(Containing the names, alphabetically arranged, of Undergraduates who have passed in all the subjects proper to their year.)

FACULTY OF ARTS.

B. A. Degrees.

FOURTH YEAR: Clarke, D. McL.; Fulton, W. H.; Grant, D. K.; Johnson, G. M.; Macdonald, Wm.; MacKay, H. M.; McKendle, W. J.; McLeish, S. J.; McLeod, A. W.; McLeod, G.; Matheson, J. A.; Morrison, A. M.; Robertson, T. R.; Solsan, D.; Stewart, F. L.; Sutherland, J. S.

THIRD YEAR: Allison, E. P.; Brown, E. N.; Burkitt, E. J.; Davison, J. M.; Fraser, Al.; Frazer, V. G.; Fulton, Ed.; Harvey, McL.; Henry, J. K.; Laird, A. G.; Macdonald, R. J.; Paton, V.; Parkinson, Hugh; Sutherland, A. W.

SECOND YEAR: Campbell, D. F.; Cogswell, G. A.; Fisher, J. M.; Fulton, Ed.; Griswold, R.; Lewis, H. W.; McCallum, H. J.; McKinney, J. A.; Mackintosh, D. C.; MacLeod, F. J.; Paton, E. J.; Rowlands, G. R.; Schurman, G. W.; Treffry, J. H.

FIRST YEAR: Baxter, Agnes; Bebbott, J. W.; Cox, G. H.; Creighton, G. J.; Goodwin, Emily M.; Grierson, J. A.; Harrington, Ed.; Hugh, D. D.; Jordan, E. J.; Legge, J. D.; McCready, J. J.; McGlashan, J. A.; McLean, J. R.; McMillan, C. E.; McMillan, F. A.; McNaughton, Elizabeth; Macae, A. O.; Magee, W. H.; Moore, C. L.; Moranah, A. V.; Oliver, A. C. L.; Robertson, S. N.; Robinson, G. K., Jr.; Tupper, J. W.; Turnbull, G. D.

FACULTY OF LAW.

For LL.B. Degrees.

THIRD YEAR: Armstrong, E. H.; Campbell, J. E.; Gregory, C. E.; Jones, H. T.; MacKay, A. A.; Magee, E. A.; McCready, C. A.; McInnis, H.; McLeish, D.; Morrison, A.

SECOND YEAR: Cummings, Denise; Forsyth, McNeil, A. H.; Patterson, Rose; Tobin.

FIRST YEAR: Armstrong, Bowser, Fairweather, Frasse, Hamilton, Howie, Lockhart, McNeil, McPhee, Oxley, Reid, Roberts, Sinclair, Smith.

FACULTY OF MEDICINE.

For Primary M.D., C.M.

(Names in order of merit.)

ANATOMY (including Practical Anatomy)—Campbell, G. M.; Walker, S. L.; Walsh, Thomas W.; Cameron, J. J.

PHYSIOLOGY—Campbell, G. M.; Walker, S. L.; Walsh, Thomas W.; **MATERIA MEDICA** (including Therapeutics and Practical Pharmacy)—Cameron, J. J.; Walsh, Thomas W.

CHEMISTRY—Walsh, Thomas W.; **BOTANY**—McCharles, R. W.; Fraser, J. F.; Elliott, C. S.; Miller, G. H.; Denier, E. W., and McLeod, R. C. (sqd.); Gregory, George; Freeman, N. P., and McMahon, Frank (sqd.); Walsh, Thomas W.

HONOURS, MEDALS, PRIZES.
EXHIBITIONS AND BURSARIES, 1887-88.

HONOURS.

MATHEMATICS AND PHYSICS.—*First Rank*—A. M. Morrison. *Second Rank*—H. M. MacKay.
METAL AND MORAL PHILOSOPHY.—*Second Rank*—A. W. MacLeod.
ENGLISH LITERATURE AND HISTORY.—*First Rank*—Geo. MacLeod; J. S. Sutherland. *Second Rank*—David Solsan.

MEDALS.

THE GOVERNOR-GENERAL'S GOLD MEDAL.—Not awarded.
THE GOVERNOR-GENERAL'S SILVER MEDAL.—J. S. Sutherland.
THE SIR W. YOUNG GOLD MEDAL.—A. M. Morrison.
THE DEMILL GOLD MEDAL.—Geo. MacLeod.

SPECIAL PRIZES.

THE NORTH-BRITISH SOCIETY BURSARY.—F. J. MacLeod.
THE AVICK PRIZE.—T. R. Robertson.
THE WAVELLET PRIZE.—G. R. Rossieges.
THE EARLY ENGLISH TEXT SOCIETY'S PRIZE.—G. MacLeod.
THE NEW SHAKESPEARE SOCIETY'S PRIZE.—F. J. MacLeod.
THE BOAK PRIZE.—H. T. Jones.

SENIOR MUSEO EXHIBITIONS.

- | | |
|-------------------|------------------|
| (1) Laird, A. G. | (3) Henry, J. K. |
| (2) Frazer, V. G. | (4) Patson, H. |
| (5) Fulton, E. | |

SENIOR MUSEO BURSARIES.

- | | |
|----------------------|--------------------|
| (1) Brown, E. N. | (5) Harvey, M. |
| (2) Fraser, J. K. G. | (6) Davison, J. M. |
| (3) Macdonald, R. J. | (7) Allison, E. P. |
| (4) Frazer, A. | (8) Burkitt, E. J. |

JUNIOR MUSEO EXHIBITIONS.

- | | |
|----------------------|--------------------|
| (1) Magee, W. H. | (3) Moore, C. L. |
| (2) Creighton, G. | (4) Bebbott, J. W. |
| (5) MacMillan, F. A. | |

JUNIOR MUSEO BURSARIES.

- | | |
|----------------------|-----------------------|
| (1) Hugh, D. D. | (6) Robinson, C. R. |
| (2) Creighton, G. | (7) McLean, J. B. |
| (3) Tupper, J. W. | (8) Jordan, E. J. |
| (4) Oliver, A. C. L. | (9) Turnbull, G. D. |
| (5) Robertson, S. N. | (10) MacMillan, C. E. |

* Except in the case of Mr. Walsh.

EXAMINATIONS, 1887-8.

FACULTY OF ARTS.

MATRICULATION EXAMINATION.

(The following list contains the names of those who either passed the Matriculation Examination, or were allowed to matriculate on report of the Examiners for Macro Economics. The names are in alphabetical order.)

For B. A. Course.

FIRST YEAR.—Atwater, J. T.; Bakin, F. W. M.; Baxter, Agnes S.; Brabant, J. W.; Cameron, S. H. H.; Cogswell, W. F.; Cox, Geo. H.; Creelman, W. A.; Croighton, G.; Douglas, E. A.; Fullerton, A.; Grieson, J. A.; Hamilton, Annie L.; Harrington, Emily R.; Hugh, D. D.; Johnson, E. D.; Jordan, E. J.; Lear, G. A.; Logan, J. D.; McCulloch, W.; McCurdy, J. F.; McDonald, A. F.; McIlroy, J. A.; McLean, J. B.; McMillan, C. E.; Macmillan, F. A.; Macrae, A. O.; Magee, W. H.; Moore, C. L.; Muise, H. H.; Montgomery, J.; Morash, A. V.; Oliver, A. C. L.; Parlee, G. P.; Robertson, S. N.; Robinson, C. B.; Thompson, F. W.; Thomson, J. W.; Treffry, A. H.; Tupper, J. W.; Turnbull, G. D.

SECOND YEAR.—Gratz, H. G.

For B. L. Course.

FIRST YEAR.—Mair, Ethel; Worth, Calista A.

ENTRANCE EXAMINATIONS.

(Names in order of merit.)

CLASSICAL HISTORY AND GEOGRAPHY.

THIRD YEAR: *Class I.*—Brown, E. N.; Henry, J. K.; Paton, V.; (Putnam, H.; Laird, A. G.). *Class II.*—Fulton, Ed.; Frazer, V. G.; Allison, E. P.; Fawcett—Harvey, M.; Davison, J. M.; Smith, E. B.; Macdonald, R. J.

SECOND YEAR: *Class I.*—None. *Class II.*—Cogswell, G. A.; Schurman, G. W.; (Lewis, L. W.; MacLeod, F. J.); Fulton, Ed.; Macintosh, D. C.; Fawcett—MacLeod, J. N.; Campbell, D. F.; Fisher, J. M.; Miller, G.; Grierson, R.; McCallum.

ENGLISH LITERATURE.

THIRD YEAR: *Class I.*—Burke, R. J.; Frazer, V. G.; Paton, H.; Laird, A. G.; Fulton, Ed.; Macmillan, H. J.; Harvey, M.; Henry, J. K.; *Class II.*—Paton, V.; Davison, J. M.; Brown, E. N.; Allison, E. P.; Smith, E. B.; Frazer, J. K. G.

SECOND YEAR: *Class I.*—MacIntosh, D. C.; Maclean, J. N.; Cogswell, G. A.; *Class II.*—MacLeod, F. J.; Fulton, Ed.; Lewis, E. W.; Passed—Schurman, G. W.; Miller, G.; Grierson, E.; Rowlings, G. R.; Murray, N. F.; Campbell, D. F.; McKinley, J. A.; Fisher, J. A.; McCallum, H.

SESSIONAL EXAMINATIONS.

HISTORY.

Class I.—(McLeod, G.; Sutherland, J. S.); Soloan, D.; Robertson, T. R. *Class II.*—McDonald, W.; Johnson, G. M.; Passed—Grant, D. K.; Clarke, D. McD.; Matheson, J. A.; McLennan, S. J.

SUPPLEMENTARY EXAMINATIONS.

FOURTH YEAR: *History of Entrance Examination.*.—McKemie, W. J.; Fulton, W. H.

THIRD YEAR: *Dynamics.*—Brown, W. *Classical History and Geography.*—Burke, R. J.; Frazer, Alex.; Fraser, J. K. G.; Howatt, C. A. *English Literature (Entrance Examination).*.—Frazer, Alex.; Howatt, C. A.

SECOND YEAR: *English.*—Burkitt, R. J.; Lotis—McKemie, W. J. *Classical History and Geography.*—Fullerton, C. F.; Rattee, E. J.; Frazer, John; Chapman; McKinley; McLennan, A. K.; Rowlings, Tedry, J. H.; Gratz, H. G.; Murray, N. F. *English Literature (Entrance Examination).*.—Fullerton, C. F.; Rattee, E. J.; Frazer, John; Chapman; McLennan, A. K.; Treffry, J. H.; Gratz, H. G.

FIRST YEAR: *English.*—Fullerton, C. F. *Algebra.*—Fullerton, C. F.; Rattee, E. J.; McLennan, A. K.; Fraser, John. *Geod.*—Frazer, John.

SPECIAL EXAMINATION.

Honours, subjects of the Third Year.—MacDonald, W.

SESSIONAL EXAMINATIONS.

CLASS LISTS.

(Citing the names, arranged in order of merit, of all Students who have passed in the subjects of the various classes.)

LATIN.

FOURTH YEAR: *Class I.*—None. *Class II.*—Grant, D. K.

THIRD YEAR: *Class I.*—Laird, A. G. *Class II.*—Paton, V. J.; Passed—Frazer, V. G.; Davison, J. M.; Howatt, C. A.; Allison, E. P.

SECOND YEAR: *Class I.*—MacLeod, F. J.; Schurman, G. W.; Lewis, E. W. *Class II.*—McCollum, H. J.; Passed—Macintosh, D. C.; Fisher, J. M.; Grierson, R.; Maclean, J. N.; Rattee, E. J.; Cogswell, G. A.; Murray, N. F.; Rowlings, G. R.; Fullerton, C. F.; Fulton, Ed.; Campbell, D. F.; Chapman, A. E.; MacKinnon, J. A.; Treffry, J. H.

FIRST YEAR: *Class I.*—Burke, R. J.; Robertson, S. N.; Magee, W. H.; MacMillan, F. A.; Hugh, D. D.; Maclean, J. B.; Macintosh, C. E.; Cox, G. H.; Jordan, J. *Class II.*—Tupper, J. W.; McDonald, A. F.; Moore, C. L.; Oliver, A. C. L.; Robinson, C. B.; Passed—Macrae, Arch.; McNaughton, Eliza.; Creighton, G.; Goodwin, Emily; Baxter, Agnes; Turnbull, G. D.; Morash, A. V.; Logan, J. D.; McGlashen, J. A.; Harrington, Emily; Thompson, F. W.; McCurdy, J. F.; Thomson, J. W.; Mackay, M. S.; Grierson, J. A.; Treffry, A. H.

GERMAN.

FOURTH YEAR: *Class I.*—None. *Class II.*—Fulton, W. H. Passed—Grant, D. K.; McLennan, S. J.

THIRD YEAR: *Class I.*—Laird, A. G. *Class II.*—Henry, J. K.; Macdonald, E. J.; Putnam, H.

SECOND YEAR: *Class I*—MacLeod, F. J.; Schurman, G. W. *Class II*—McCallum, H. J.; Passed—Lewis, E. W.; Mackintosh, D. C.; Fulton, E. C.; Fisher, J.; Cogswell, G. A.; Grierson, R.; Rowlings, G. R.; (McKinnon, J. A.; Rattee, E. J.; Campbell, D. F.; Chapman, A. E.; Gratz, H.; McLean, J. N.; McLeaman, A. K.; Miller, G.)

FIRST YEAR: *Class I*—Brockat, J. W.; MacMillan, F. A.; Magee, W. H. *Class II*—Baxter, Agnes; Macdonald, A. F.; Robinson, C. B.; (Jordan, J.; Robertson, S. N.); Oliver, A. C. L.; Moore, C. W.; (Hugh, D. D.; MacLean, J. E.); Goodwin, Emily; Tupper, J. W.) Passed—Macrae, A. O.; Macmillan, C. R.; McNaughton, Elizabeth; Creighton, G. J.; Turnbull, G. D.; McGlashan, J. A.; Mowat, A. V.; Cox, G. H.; Thompson, F. W.; Munro, Chris; Logan, J. D.; Caldwell, Lillie; Thomson, J. W.; Grizzel, J. G.; McCurdy, J. F.

FRENCH.

THIRD CLASS: *Class I*—F. J. Stewart, H. J. McCallum, J. Hart Tracy. Passed—A. M. Morrison.

SECOND CLASS: *Class I*—Miss E. H. Stewart, Miss M. Liechti, *Class II*—Miss E. Muir, Miss M. Stewart; J. S. Stewart, Wm. Macdonald, H. M. MacKay. Passed—W. H. Fulton, George MacLeod, David Solomons, C. A. Howard, J. R. E. Robertson, Miss Gert Mackintosh, Wm. Brown.

FIRST CLASS: *Class I*—V. G. Frasse, Edward Fulton, J. M. Davison. *Class II*—John Montgomery, R. D. Higgs. Passed—A. H. Trevry, Miss Calista Worth.

GERMAN.

SECOND CLASS: *Class I*—Miss M. Liechti, Miss Maria Stewart, Miss Gert Mackintosh. *Class II*—W. H. Fulton. Passed—D. K. Grant.

FIRST CLASS: *Class I*—H. Putman, J. K. Henry. *Class II*—E. N. Brown, Est. Macdonald. Passed—Miss E. Muir, Miss Anna M. Milroy, Alexander Fraser, G. A. Lear, Miss Calista A. Worth.

ENGLISH.

SECOND YEAR: *Class I*—MacLeod, F. J.; Mackintosh, D. C.; Schurman, G. W.; Stewart, Miss M. L. J. *Class II*—Macdonald, Miss E. G. Passed—Lewis, E. W.; Fulton, Ebene; Higgs, E. D.; (Trevry, J. H.; Mackintosh, J. A.); (Cogswell, G. A.; Fisher, J. M.; Grierson, R.; Macleman, A. K.; Mcleishon, J. A.; Macleman, J. N.; Rowlings, G. R.); (Chapman, A. E.; Rattee, E. J.); Murray, N. F.; Campbell, D. F.); (Miller, George; McCallum, H. J.); Gratz, H. G.

FIRST YEAR: *Class I*—Brockat, J. W.; (Stewart, Miss E. H.; Magee, W. H.); Harrington, Miss E. R. *Class II*—MacMillan, C. E.; (Muir, Miss E.; Tupper, J. W.); Passed—(MacLean, J. B.; Robinson, C. B.); (Hugh, D. D.; Jordan, J.; Moore, C. L.); Turnbull, G. D.; Macdonald, A. F.; (Cox, G. H.; Oliver, A. C. L.); Robertson, J. N.; Goodwin, Miss E. M.; MacMillan, F. A.; Higgs, H. D.; (Brown, H. C.; Grierson, J. A.); (Logan, J. D.; Montgomery, J.; McNaughton, Miss E.; Thomson, J. W.); (Oliver, A. O.; McCurdy, J. F.; Mowat, A. V.; Trevry, A. H.)

BIRDSHOT.

FOURTH YEAR: *Class I*—Sutherland, J. S.; McLeod, George; Salmon, D.; Robertson, T. M.; Macdonald, Wm. *Class II*—Higgs, R. D. Passed—McLeaman, C. P.; Grant, D. K.

THIRD YEAR: *Class I*—Fulton, Edward; Putman, H. *Class II*—Fulton, Vincent; Henry, J. N.; McDonald, Robert; Davison, J. M.

SESSIONAL EXAMINATIONS.

Allison, E. P. Passed—Fraser, J. K. G.; Frasse, V. G.; Higgs, B. D.; Smither, Allan; Harvey, M. S.

POLITICAL ECONOMY.

Class I—(McLeod, George; Sutherland, J. S.); Higgs, B. D. *Class II*—Allison, E. P.; (McLellan, J. J.; Paton, Vincent).

METAPHYSICS.

Class I—Fulton, Edward; Brown, E. N.; Macdonald, W.; (Fraser, Alex.; Putman, H. *Class II*—Macdonald, R. J.; (Stewart, Miss M. L. J.; Henry, J. K.); Soleau, D. Passed—Harvey, McLeod; Murray, F. W.; Fraser, J. K. G.; Murray, F. W.; Fraser, J. K. G.

ETHICS.

Class I—Grant, D. K.; Brown, E. N. *Class II*—Fraser, Alex.; Robertson, T. R.; (Clarke, D. McR.; McLellan, S. J.); Stewart, Miss M. L. J.; Fulton, W. H.; Johnson, George M. Passed—McKensie, W. J.; Matheson, J. A.

LOGIC AND PSYCHOLOGY.

Class I—Schurman, G. W.; (McLeod, F. J.; Fulton, Ebene; Higgs, Mackintosh, D. C.; Grizzel, R.; Rowlings, G. H.; Manro, C. Miller; Grey, Macdonald, J. N. *Class II*—Fisher, Jas. J.; (Logan, E. W.; Rattee, E. J.; Trevry, J. H.); (McKinnon, J. A.; Mcleishon, J. A.; Smither, A.; Campbell, D. F.); (McLellan, C. P.; Murray, N. F. Passed—(Chapman, A. E.; Gratz, H. H.); Cogswell, G. A.; Fullerton, C. P.; McCallum, H. J.; Thompson, A. S.

MATHEMATICS.

SECOND YEAR: *Class I*—Rowlings. *Class II*—Lewis. Passed—Grizzel, Salmonian, (Fisher, Campbell), McLeod, Trevry, Gratz, Rattee, Fulton, McCallum, Miller, MacKinnon, Cogswell, Mackintosh, Murray. Passed in Geometry—McLean, J. N. Passed in Trigonometry, E. —Chapman, K.

FIRST YEAR: *Class I*—Moore, Magee, McLean, J. B., Stewart, Miss M. L. J., Oliver, Tupper, Macdonald, Hugh, Brockat, Robertson, Robinson, Jordan, Baxter, Miss A. *Class II*—Grizzel, J. A.; MacMillan, G. E.; Turnbull, Miss Mowat, Goodwin, Miss; MacMillan, F. A.; Macrae, Caldwell, Miss Cox. Passed—Thomas, F. W.; McCurdy, Parker, MacKay, McNaughton, Miss; Worthylake, Harrington, Miss Cameron, Montgomery, Logan, Grizzel, G. F.; Finlayson, Worth, Miss. Passed in Geometry—Fraser, S.; Thomas, J. W.; Trevry, J. H.; Borden, H. C. Passed in Algebra—Mair, Miss E.

PHYSICS.

THIRD YEAR: *Class I*—(Fraser, V. G.; Putman, H.) *Class II*—Laidl, A. G.; Henry, J. K.; Berkitt, R. Passed—Harvey, M.; Davidson, J. M.; Allison, E. P.; Paton, V.; Murray, F. W.; Macdonald, K. J.

FOURTH YEAR: *Class I*—MacKay, H. M. *Class II*—Stewart, F. J. Passed—Morrison, A. M.; Brown, W.

DYNAMICS.

Class II—Berkitt, R.

INORGANIC CHEMIST.

Class I—E. H. Stewart, W. H. Magee, J. W. Rebstock, R. L. Murray, S. W. Robertson, D. B. Hugh, E. R. Harrington, Agnes S. Baxter, C. I. Moore. *Class II*—R. Male, G. D. Tarzwell, G. A. Burbridge, Albert V. Morash, Lizzie McNaughton, C. R. Robinson, A. C. L. Oliver, F. A. McMillan, Little R. Caldwell, George P. Farley, Alice Thomson, F. McCurdy, F. W. Thompson, George H. Cox, John Jordan, A. O. Macsee, R. M. Goodwin. *Passed*—J. A. Grierson, J. W. Tipper, F. C. McLeod, A. F. McDonald, J. W. Croighton, J. W. Thomson, John B. McLean, J. D. Logan, E. Worthylake, A. C. Borden, John Montgomery, C. E. McMillan, G. T. Grierson, D. Martin, Simon H. W. Camrose, Calista Werth, A. Lear, R. A. Finlayson, A. H. Treby.

ROTARY.

Class I—W. H. Fulton, E. H. Stewart, Alice Thomson. *Passed*—J. W. Croighton.

ORGANIC CHEMIST.

Class I—A. J. Denton, S. J. McLean, Robert Burkitt.

PRACTICAL CHEMISTRY—ADVANCED.

Class I—S. J. McLean.

PRACTICAL CHEMISTRY.

Class I—G. Croighton. *Class II*—V. G. Frame. *Passed*—A. J. Denton, J. M. Davison.

FACULTY OF LAW.

SESSIONAL EXAMINATIONS.

CLASS LIST.

(Containing the names arranged in the order of merit in the First and Second Class, and alphabetically in the Pass List, of students who have passed in the various subjects.)

INTERNATIONAL LAW.

Class I—MacKay, Jones. *Class II*—Robertson, Armstrong, Campbell, J. R., and McLean (equal), McLain. *Passed*—Magee, McDonald, Morrison.

CONFLICT OF LAWS.

Class I—Armstrong, MacKay. *Class II*—Jones, Whitford and Magee (equal), McLain. *Passed*—Morrison.

CONSTITUTIONAL LAW.

Class I—Lorin, Robertson, Ross, Campbell, A. J. *Class II*—Patterson, McNeil, Cummings, Campbell, Alex., Tobin. *Passed*—McDonald, W., Whitford, Forsyth, Denison.

CONSTITUTIONAL HISTORY.

Class I—Reid, Howie, Lovitt, Lockhart. *Class II*—McBride, Oxley and Smith (equal), McNeil, Roberts. *Passed*—Bower, Fairweather, Frame, Hamilton, Howitt, McPhee, Paton, Sinclair.

INSURANCE.

Class I—McInnis, Campbell, J. R., and Scott (equal). *Class II*—McCrady, MacKay, McLean. *Passed*—Morrison, Armstrong, Magee.

EQUITY.

Class I—McNeil, Patterson, Lovitt, Tobin, Cummings. *Class II*—Ross, Gray, Denison. *Passed*—Buchanan, Campbell, Alex., Forsyth, Stevens.

ILLS AND NOTES.

Class I—MacKay, McNeil, Ross, Buchanan, Cummings, Lovitt and McInnis (equal), Patterson, Jones, Tobin, Denison. *Class II*—McLennan, Magee, Armstrong. *Passed*—Campbell, Alex., Forsyth, Stevens.

CONTRACTS.

Class I—McNeil, Howie, Smith, Hamilton, Campbell, Reid, McPhae, Lockhart, Armstrong. *Class II*—Fairweather, Frame, Roberts. *Passed*—Bower, McBride, Oxley, Sinclair.

REAL PROPERTY.

Class I—Reid, Campbell, Hamilton, Frame, Bower, Howie, McNeil, Sinclair, Lockhart. *Class II*—Fairweather, Smith, Buchanan, Reivera. *Passed*—Netting, McPhee, Higgins, Oxley, Armstrong, White, Freeman.

PARTNERSHIP.

Class I—McNeil, Lovitt, MacKay, McLain, Buchanan, McLean and Patterson (equal), Cummings, Armstrong and Ross (equal). *Class II*—Forsyth and Tobin (equal), Denison. *Passed*—Campbell, Morrison.

TORTS.

Class I—Reid, Howie and Hamilton (equal), Campbell, A. J., Lockhart and McNeil (equal), Buchanan. *Class II*—Smith, Robertso, Sinclair, Fairweather, McPhee, Bower, McBride and Frame (equal). *Passed*—Armstrong, Higgins, Oxley, White.

GENERAL LIST

OF

MEDALS, PRIZES, EXHIBITIONS, &c.

1871-1872.

THE GOVERNOR-GENERAL'S GOLD MEDAL.

- 1880, Crowell, E. 1881, Creelman, H. G. 1882, Trusman, J. S. 1883, Bell, J. A. 1884, McLeod, J. P. 1885, Alison, W. 1886, Robinson, A. 1887, Shaw, J. C.

THE GOVERNOR-GENERAL'S SILVER MEDAL.

- 1880, Fraser, W. M. 1881, not awarded. 1882, not awarded. 1883, Macdonald, J. A. 1884, Adams, H. S. 1885, Langille, R. M. 1886, Mackay, N. F. 1887, McLeod, M. J.

THE SIR WILLIAM YOUNG GOLD MEDAL.

- 1882, Campbell, G. M. 1883, Echlin, A. G. 1884, Murray, D. A. 1885, McKenzie, A. S. 1886, Morton, S. A. 1887, McLeod, M. J.

THE DeMILL GOLD MEDAL.

- 1885, Gamrell, L. 1887, Coffin, V. E.

THE MACKENZIE GOLD MEDAL.

- 1886, Mackay, E.

THE NORTH BRITISH SOCIETY BURSARY.

- 1880, Campbell, G. M. 1882, McLeod, J. P. 1884, Mackay, N. F. 1886, Mackay, H. M.

THE AVERY PRIZE.

- 1880, Thomson, A. E. 1881, Sedgwick, J. A. 1882, Carson, G. S. 1883, McLennan J. W. 1884, Turner, D. F. D. 1885, Tufts, W. M. 1886, Allison, M. G. 1887, (Calkin, N. S., and Stewart, A. F.)

THE WAVERLEY PRIZE.

- 1879, Murray, H. 1881, Bell, J. A. 1883, Gamrell, L. 1884, Stewart, D. 1885, Morrison, A. M. 1886, Stewart, F. L. 1887, Laird, A. G.

THE ST. ANDREW'S CHURCH PRIZE.

- 1879, Murray, H. 1880, Mellish, H. 1881, Macdonald, J. A. 1882, Murray, D. A. 1883, (Alison, W., and Robinson, G. E.) 1884, Nicholson, A. (Discontinued in 1884).

* For medalists of previous years, see List of Graduates. For Prizes, &c., of previous years, see Calendar of 1881-82.

THE YOUNG ELOCUTION PRIZES.

- 1879, (1) McLaren, C. D. (2) Crowell, E. (3) Fraser, W. F. 1880, (1) Murray, D. A. (2) Mellish, H. 1881, (1) Forsyth, J. E. (2) Bell, E. M. (Discontinued, 1881.)

THE ALUMNI PRIZES.

- 1879, (First Year). (1) Campbell, G. M. (2) Carson, G. S. (Discontinued 1879.)

THE NEW SHAKSPERE SOCIETY'S PRIZE.

- 1884, MacKnight, Catherine K. 1885, Sutherland J. S. 1886, McLeod, G. 1887, Henry J. K.

THE EARLY ENGLISH TEXT SOCIETY'S PRIZE.

- 1885, Gamrell, L. 1886, Coffin, F. J. 1887, McNeill, Charlotte M.

THE JACK HERBARIUM PRIZE.

- 1884, Campbell, G. G.

THE BOAK PRIZE.

- 1886, McCully, F. A. 1887, McCready, C. A.

UNIVERSITY PRIZES.

FACULTY OF ARTS.

- CLASSICS:** *First Year*: 1879, McLennan, J. M. 1880, Thomas, A. E. 1881, Sedgwick, J. A. 1882, Traenman, J. S. 1883, Bell, J. A. 1884, McLeod, J. P. 1885, Aitken, W. 1886, Robinson, A. *Third Year*: 1879, Traenman, A. E. 1886, Murray, H. 1881, Traenman, J. S. 1882, Bell, J. A. 1883, McLeod, J. P. 1884, Aitken, W. 1885, Robinson, A. 1886, Letitia; Shaw, J. C. *Greek*: Forbes, Antiochette. *Second Year*: 1879, (1) Murray, H. (2) Traenman, J. S. 1880, Mellish, H. 1881, Bell, J. A. 1882, McLeod, J. P. 1883, Gamrell, L. 1884, Robinson, A. 1885, Shaw, J. C. 1886, McLeod, G. *First Year*: 1879, Campbell, G. M. 1880, (1) Bell, J. A. (2) Macdonald, J. A. 1881, (1) McLeod, J. P. (2) Adams, H. S. 1882, (1) Gamrell, L. (2) Aitken, W., and McLeod, J. M. 1883, Mackay, E. 1884, Letitia; Shaw, J. C.; Greek, Fraser, D. 1885, (2) McLeod, G.; (2) Grant, D. K. 1886, Laird, A. G.

- FREEZE:** 1882, Carson, G. S. 1883, McLennan, J. W. 1884, Campbell A., (New Glasgow). 1885, Tufts, W. M. 1886, Calder, J.

- FRENCH:** *First Year*: 1879, Cameron, C. S. 1880, Mahon, A. W. 1881, Stewart, T. 1882, Mellish, H. 1883, Smith, H. M. *Third Year*: 1879, Mahon, A. W. 1880, Murray, H. 1881, Mellish, H. 1882, Smith, H. M. 1883, Adams, H. S. *Third Class*: 1883, Mackenzie, A. S. 1885, Nicholson, A. *Second Class*: 1884, Turner, D. F. D. 1885, Allison, M. G. *First Class*: 1884, McKenzie, A. S. 1885, Coffin, F. J. 1886, McLeod, M. J.

GERMAN: 1880, Creelman, H. G. 1881, Reid, A. G., *Third Class*; 1885, Cornelius, Louise A., *Second Class*; 1884, Saunders, Marie F. 1885, Newcombe, Margaret F. 1886, Macknight, Catherine K., *First Class*; 1884, Aiton, W. 1885, Cahan, C. H. 1886, Shaw, H. C.

KHETROUD: 1879, Fowler, G. W. 1880, Bell, J. A. 1881, McLeod, J. P. 1882, McLeod, J. M.

ENGLISH LANGUAGE AND LITERATURE: 1882, (Larkin, F. H., and Ritchie, Eliza), *First Year*; 1884, MacNeill, Charlotte M. 1885, McLeod, G. 1886, Henry, J. E. *Second Year*; 1885, Sutherland, J. S. 1886, McLeod, G.

HISTORY: 1879, Dickie, A.; *Constitutional History*, Mahon, A. W. 1880, Crowell, E. 1882, Crowe, W. 1883, McLennan, J. W. *Fourth Year*; 1884, McLeod, J. P. 1885, Gamrell, L. 1886, Macrae, A. W. *Third Year*; 1884, Gamrell, L. 1885, Smith, J. F. 1886, Shaw, H. C.

POLITICAL ECONOMY: 1883, Bell, J. A. 1884, Turner, D. F. D. 1885, Newcombe, Margaret F. 1886, Allison, M. G.

ETHICS AND POLITICAL ECONOMY: 1879, Cameron, C. S. 1880, Dasian, J. F. 1881, Stewart, T. 1882, Carson, G. S.

ETHION: 1881, McLennan, J. W. 1884, McDonald, D. 1885, Langille, R. M.

METAPHYSICS: 1879, (1) Mahon, A. W., (2) Crowell, E. 1886, Murray, H. 1881, (1) Fraser, W. M., *B.Sc.*, (2) Campbell, G. M. 1882, Taylor, W. P. 1883, McLeod, J. F. 1884, Ritchie, Eliza. 1885, Cahan, C. H. 1886, Creighton, J. E.

LOGIC AND PSYCHOLOGY: 1879, Murray, H. 1880, Mahon, A. W. 1881, McLennan, J. W. 1882, McLeod, J. P. 1883, (Gamrell, L. and Macrae, A. S.) 1884, Cahan, C. H. 1885, Sutherland, J. S. 1886, McLeod, G.

MATHEMATICS: Second Year: 1879, (1) Murray, H., (2) Creelman, H. G. 1880, Campbell, G. M. 1881, Reid, A. G. 1882, Murray, D. A. 1883, Gamrell, L. 1884, Stewart, D. 1885, (1) Morrison, A. M., (2) McLeod, M. J. 1886, Stewart, F. L. *First Year*; 1879, (1) Campbell, G. M., (2) Carson, G. S. 1880, (1) Murray, D. A., (2) Reid, A. G. 1881, (1) McLeod, J. P., (2) Elliott, H. 1882, Cahn, Lillie R. 1883, Mackay, E. 1884, Macmillan, Charlotte M. 1885, (1) Stewart, F. L., (2) Brown, W. 1886, Frazer, V. G.

PHYSICS: 1878, Dickie, A. 1880, Creelman, H. G. 1881, Carson, G. S. 1882, MacGregor, T. S., *Mathematical Physics*; Reid, A. G. 1883, Murray, D. A. 1884, MacKenzie, A. S. 1885, *Fourth Year*, Mackay, E. *Third Year*, Morton, S. A. 1886, MacLeod, M. J.

ASTROLOGY: 1881, Creelman, H. G. 1882, Campbell, G. M. 1883, Reid, A. G. 1884, Murray, D. A.

CHEMISTRY: 1879, Murray, H. 1880, Campbell, G. M. 1881, (Organic) Reid, A. G.; (Inorganic) McLeod, J. P. 1883, (Organic) Campbell, G. G.; (Inorganic) Gamrell, L. and Newcombe, Margaret F. 1884, (Organic) Smith, H. M.; (Inorganic), *Second Year*, Robinson, A.; *First Year*, Morrison, A. M. 1885, (Organic) Macrae, A. W.; (Inorganic) Stewart, F. L.; (Practical) Robinson, G. E. 1886, (Inorganic) Frazer, V. G. and Laird, A. G.; (Organic) McLeod, M. J.

GEOLOGY: (JUNIOR) 1871, Cameron, A. G. (SENIOR) 1882, Cameron, A. G.

ZOOLOGY: 1881, Morse, J. A. 1885, Campbell, G. G.

BOTANY: 1882, Smith, H. M. 1883, Truscott, H. 1885, Symonds, F. A.

FACULTY OF LAW.

CONSTITUTIONAL HISTORY: 1884, Carter, W. D. 1885, Mellish, H. 1886, Peacock, J. J.

CONSTITUTIONAL LAW: 1884, Morse, C. 1885, Chisholm, J. 1886, Henry, W. A.

INTERNATIONAL LAW: 1885, Ives, W. B. 1886, Chisholm, J. A. *Conflict of Laws*; 1884, Morse, C. 1885, Milliken, A. E. 1886, McDonald, E. M.

ROMAN LAW: 1883, Ives, W. B. 1886, Carter, W. D.

EVIDENCE: 1884, Sedgwick, J. A. 1885, Carter, W. D. 1886, Rogers, H. W.

EQUITY: 1884, Sedgwick, J. A. 1885, Thompson, S. R. 1886, McDonald, E. M.

REAL ESTATE: 1884, Wells, W. W. 1885, McCully, F.

REAL PROPERTY: 1883, (McCully, F.; Mellish, H.; Thomson, W. K.) 1886, Campbell, J. R.

ESTATES LESS THAN FREEHOLD: 1886, Campbell, J. R.

COMMERCIAL LAW: 1884, Mooney, F. C. C. 1886, Thorsen, W. K.

CONTINGENCIES: 1884, Wells, W. W. 1885, Mellish, H. 1886, McLeods, H.

SALES: 1885, Carter, W. D.

FILLS AND NOTES: 1885, Carter, W. D.

INSURANCE: 1883, Cook, H. W. C. 1886, Henry, W. A.

CRIMES AND TORTS: 1884, Carter, W. D.

TORTS: 1885, Haughton, F. W. 1886, McCready, C. A.

CRIMES: 1885, Mellish, H. 1886, Ford, E. L.

(Discontinued 1886.)

PROFESSORS' SCHOLARSHIPS.

1879—In Arts: (1) Bell, J. A., Halifax High School; (2) Merce, J. A., do.; (3) Macdonald, J. A., do. In Science: Reid, A. G., Halifax High School.

1880—In Arts: (1) Adams, H. S., Halifax High School; (1) Pittblado, J., private Study. In Science: Smith, H. M., private study.

(Discontinued 1880.)

THE MUNRO EXHIBITIONS.

(The names are in order of merit.)

SENIOR:—1883; Mackenzie, A. S.; Gamrell, L.; Tufts, W. M. 1884; Robinson, A.; Cahan, C. H.; Mackay, E.; Mackay, N. F.; Lewis, A. W. 1885; Creighton, J. E.; Shaw, J. C.; Shaw, H. C.; MacNeill, Charlotte M.; Beauman, J. J. 1886; McLeod, Sutherland, J. S.; Stewart, F. L.; Mackay, H. M.; Morrison, A. M.

JUNIOR:—1881; Gamrell, L.; Aiton, W.; Fitzpatrick, H. H. K.; McLeod, J. M. 1882; Mackay, E.; Cahan, C. H.; Calder, J.; Mackay, N. F.; Robinson, A. 1883; Beauman, J. J.; MacNeill, Charlotte M.; Forbes, Antoinette; Creighton, J. E. 1884; McLeod, G.; Mackenzie, J. W.; Mackay, H. M.; McDonald, W.; Salmon, D. M. 1885; Laird, A. G.; Fulton, E.; Frazer, V. G.; Henry, J. K.; Putman, H. 1886; McCallum, H.; Mackintosh, D. C.; Schurman, G. W.; Gardner, N. H.; McLeod, F. J.

THE MUNRO BURSARIES.

(The names are in order of merit.)

SENIOR—**1882**: McLeod, J. P.; Murray, D. A.; Adams, H. S.; Jones, F. 1883; Newcombe, Margaret E.; Fitzpatrick, H. H. E.; Thompson, A. W.; Robinson, G. E.; Martin, K. J.; Aitken, W.; Langille, R. M. 1884; Macrae, A. W.; Coffin, F. J.; Calder, J.; Stewart, D.; Nicholson, A.; Morton, S. A. 1885; Coops, F. H.; Forbes, Antoinette; Fraser, D. 1886; Fulton, W. H.; Solomons, D. M.; Clark, D. McD.; Robertson, T. R.; Johnson, G. M.; McDonald, W. Grant, D. K.; McLeaman, S. J.

JUNIOR—**1880**: McLeod, S. P.; Bell, E. M.; Elliott, H.; Morrison, D. L.; Jones, F. 1881; Robinson, G. E.; Kempton, W. F.; Coffin, F. J.; Thompson, A. W.; Calkins, Little B.; Crawford, J.; Martin, K. J.; McLean, J. M.; Mackenzie, A. S.; Newcombe, Margaret E.; Tufts, W. M. 1882; Nicholson, A.; Morton, S. A.; MacDonald, E. M.; Stewart, D.; Lewis, A. W.; Coffin, V. E.; Macrae, A. W.; Mackenzie, D. H.; Reid, R. L. 1883; Coops, F. H.; Fraser, D. O.; Shaw, H. C.; Shaw, J. C.; Campbell, W. R.;utherland, J. S.; Johnson, G. M. 1884; Stewart, F. L.; Grant, D. K.; Harvey, M.; Robertson, J. R.; Clark, D. McD.; Brown, W.; Allison, E. P.; Matheson, J. A. 1885; McDonald, R. J.; McKay, D. O.; Burkitt, R.; Fraser, A.; Howatt, C. A.; Laird, A.; Kennedy, J. 1886; McLeaman, J. N.; Campbell, D. F.; Grierson, R.; Lewis, E. W.; Fisher, J. M.; Cogswell, G. A.; Rowlings, G. R.; Fulton, Ebenezer; Murray, N. F.

CERTIFICATES OF MERIT.

[The names are arranged alphabetically.]

FIRST CLASS: *Fourth Year*: 1870, Cameron, C. S.; McLean, I. M. 1881, Creelman, H. G. 1882, Mellish, H.; Thomson, J. S. 1883, Bell, J. A.; McLeaman, J. W. *Third Year*: 1880, Blanchard, C. W.; Creelman, H. G.; Murray, H. 1881, Campbell, G. M.; Thomson, J. S. 1882, Bell, J. A.; Bell, A. G. 1883, Adams, H. S.; McLeod, J. P.; Murray, D. A. *Second Year*: 1879, Murray, H. 1880, Campbell, G. M.; Mellish, H. 1881, Bell, J. A.; Reid, A. G. 1882, Adams, H. S.; McLeod, J. P.; Murray, D. A. 1883, Gammell, I.; Martin, K. J.; Mackenzie, A. S.; Robinson, G. E. *First Year*: 1879, Campbell, G. M.; Carson, G. S. 1880, Bell, J. A.; MacDonald, J. A.; Moore, J. A.; Murray, H. A.; Reid, A. G. 1881, Adams, H. S.; Elliott, H.; McLeod, J. P. 1882, Atton, W.; Calkins, Little B.; Coffin, F. J.; Gammell, I.; Kempton, W. F.; Martin, K. J.; Mackenzie, A. S.; McLeod, J. M.; Pittblado, J.; Robinson, G. E.; Tufts, W. M. 1883, Cahill, C. H.; Mackay, E.; Mackay, N. F.; Robinson, A.

SECOND CLASS: *Fourth Year*: 1870, Emerson, R. R. J. 1880, Crowell, E. 1881, Sedgwick, J. A. 1882, Cameron, A. G.; Carson, G. S.; Davidson, F. J.; Patterson, G. G. 1883, Dickie, H.; McColl, A. *Third Year*: 1879, Crowell, E.; Thomson, A. R. 1881, Mellish, H. 1882, MacDonald, J. A.; McLeaman, J. W.; Taylor, W. P. 1883, Smith, H. M. *Second Year*: 1878, Creelman, H. G.; Thomson, J. S. 1880, Cameron, A. G. 1881, MacDonald, J. A.; McGregor, T. S.; McLeaman, J. W.; Moore, J. A. 1882, Smith, H. M. 1883, Atton, W.; Calkins, Little B.; Fitzpatrick, H. H. E.; McLeod, M.; Newcombe, Margaret F.; Tufts, W. M. *First Year*: 1879, McLeaman, J. W. 1880, McLeans, H. J.; McLeod, J.; Thompson, E. 1881, Bell, E. M.; Jones, F.; Morrison, D. L.; Pittblado, J. 1882, Crawford, J.; Fitzpatrick, H. A.; Newcombe, Margaret F.; Thomson, A. W. 1883, Allison, M. G.; Larke, F. H.; Lewis, A. W.; Saunders, Maria F.; Stewart, D.

(Discontinued in 1883.)

GRADUATES OF THE UNIVERSITY.

N. B.—Degrees printed with the names have been obtained at other Universities.

Graduates are requested to notify the President of changes of address.

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|--------------------------------------------------------------------|--------------------------|
| †Address, H. S., Jesuit's College, Montreal..... | R. A., 1884 |
| †Allison, W., Sussex, N. B. | R. A., 1885 |
| Allan, Rev. John M., Edinburgh..... | B. A., 1878; M. A., 1876 |
| Allison, Matthew G., Windsor, N. S. | R. A., 1886 |
| Annsand, Rev. Joseph, New Hebrides..... | B. A., 1869; M. A., 1872 |
| Archibald, Rev. F. W., M. A., B. D., Ph. D., St. Thomas, Ont. | R. A., 1877 |
| Archibald, Rev. W. P., Cavendish, P.E.I., R.A., 1873; M. A., 1878 | |
| Armstrong, E. H., Kingston, N. S. | L. B., 1888 |
| Bayne, Prof. H. A., Ph. D., F.R.S.C., (obit.)..... | B. A., 1869 |
| M. A., 1872 | |
| †Bell, F. H., Halifax..... | R. A., 1876 |
| †Bell, J. A., Halifax..... | R. A., 1883 |
| Bennett, A. W., Hopewell, N. B. | L. B., 1883 |
| Bethune, J. L., Baddeck, C. B. | M. B., C. M., 1875 |
| Blanchard, C. W., Winnipeg..... | R. A., 1880 |
| Bous, H. W. C., Halifax..... | L. B., 1885 |
| Bruce, Rev. W. T., M. D., Valley Station, Col. Co. | R. A., 1872 |
| Eyden, Rev. W. C., Tatamagouche..... | R. A., 1873 |
| †Buchanan, James J., Sydney, C. B. | R. A., 1887 |
| Burgess, Rev. J. C. | R. A., 1867 |
| Cahan, Charles H., Halifax..... | R. A., 1886 |
| Cairns, Rev. J. A., M.A., Upper Musquodobit..... | J. A., 1878 |
| Cahor, John, West Bay, C. B. | R. A., 1886 |
| Calkin, William S., Truro..... | R. A., 1887 |
| Cameron, A. G., Newton, Guysborough'..... | R. Sc., 1882 |
| †Cameron, C. S., Halifax..... | R. A., 1879 |
| †Cameron, Rev. J. H., Bass River, N. B. | R. A., 1878 |
| Cameron, William, Merrymount, N. S. | R. A., 1873 |
| Caron, Rev. J. J., Shakespear, Ont. B. A., 1869; M. A., 1871 | |
| Caron, Alexander J., Truro, N. S. | R. A., 1886 |
| Campbell, George G., Truro..... | B.Sc., 1883 |

† Graduated with First Rank Honours in Classics.

‡ Graduated with Second Rank Honours in Classics.

* Graduated with Second Rank Honours in English and English History.

* Graduated with Second Rank Honours in Mental and Moral Philosophy.

* Graduated with Second Rank Honours in Mathematics and Mathematical Physics.

† Governor-General's Gold Medallist.

† Governor-General's Silver Medallist.

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|-----------------------------------------------------------------------------|---------------------------|
| a § *Campbell, George M., Truro..... | R. A., 1892 |
| Campbell, D. A., Halifax..... | M.D., C.M., 1874 |
| Campbell, J. E., Jr., Dorchester, N. B..... | L.R., 1888 |
| Campbell, Wm. R., E. River, St. Mary's, Pictou Co., B. A., 1887 | |
| Carneish, J. M., New Glasgow..... | B. A., 1872 |
| Carr, Rev. A. F., Alberton, P. E. I., A. A., 1868; M. A., 1871 | |
| Carson, Rev. G. S., Pictou, N. S..... | R. A., 1882 |
| Carter, Titus James, Paint du Butte, N. B..... | L.L.B., 1888 |
| Carter, William D., Richibucto, N. B..... | L.L.B., 1888 |
| Chabot, F. E., Truro..... | R. A., 1879 |
| Chambers, R. E., Truro..... | R. A., 1877 |
| Chase, Rev. J. H., Ossaw.... | B. A., 1886; M. A., 1893 |
| Chisholm, Dou., Antigonish..... | M.D., C.M., 1874 |
| Chisholm, Joseph A., Antigonish..... | L.R., 1888 |
| Christie, Rev. T. M., (obit.)..... | R. A., 1883 |
| Clarke, Daniel McD., West River, Pictou Co., N. S., B. A., 1888 | |
| Clyne, Andrew, Halifax..... | L.L.B., 1887 |
| *Coffin, Felton J., Mt. Stewart, P. E. I..... | R. A., 1886 |
| Coffin, F. S., M.A., Mt. Stewart, P. E. I..... | R. A., 1885 |
| *Coffin, Victor E., Mt. Stewart, P. E. I..... | R. A., 1887 |
| *Coops, Frank H., Milton, Queens Co..... | R. A., 1887 |
| Costley, Alfred, Halifax..... | B. A., 1881 |
| Cox, Robinson, Stewiacke..... | M.D., C.M., 1873 |
| Credman, Rev. D. F. (obit.)..... | B. A., 1873; M. A., 1880 |
| +Creelman, H. G., B. Sc., Vans Dunlop Scholar, Edinburgh Univ., B. A., 1881 | |
| Creighton, J. G. A., Montreal..... | R. A., 1868 |
| Creighton, H. S., Dartmouth..... | R. A., 1880 |
| *Creighton, James E., West River, Pictou Co..... | A. A., 1887 |
| Crowe, Walter, Sydney, C. B..... | L.R., 1886 |
| *Crowell, Rev. Edwin, Yarmouth..... | R. A., 1889 |
| Crichton, Rev. W., B. D., Montreal..... | R. A., 1872 |
| Daridson, J. F., Pinos Altos, Grant Co., New Mexico, B. A., 1882 | |
| DeWolf, G. H., Tintera, England..... | M.D., C.M., 1872 |
| Dickie, Alfred, Upper Stewiacke..... | B. A., 1879; M. A., 1883 |
| Dickie, Henry, Upper Stewiacke..... | R. A., 1883 |
| Dill, Edmund M., Centre Rawdon, Hants Co..... | R. A., 1884 |
| Doull, W. S., Halifax..... | R. A., 1875; L.L.B., 1885 |

^a Graduated with Second Rank Honours in Classics.

^b Graduated with First Rank Honours in Literature and English History.

^c Graduated with Second Rank Honours in Literature and English History.

^d Graduated with First Rank Honours in Moral and Moral Philosophy.

^e Graduated with Second Rank Honours in Mathematics and Mathematical Physics.

^f Governor-General's Gold Medallist.

^g Governor-General's Silver Medallist.

^h DeMille Gold Medalist.

ⁱ Sir Wm. Young's Gold Medallist.

^j Munro Tutor in Mathematics, 1882-3.

| | |
|-------------------------------------------------------------------|--------------------------|
| Daff, Kenneth, Lunenburg..... | R. A., 1878 |
| Esmarsen, R. R. J., Middle Sackville, N. S..... | R. A., 1879 |
| *Fitzpatrick, H. H. K., Scotstoun, Pictou Co..... | R. A., 1885 |
| | M. A., 1888 |
| Fitzpatrick, Rev. James, Salt Springs..... | R. A., 1875 |
| Forbes, Antoinette, Little Harbour, Pictou Co..... | R. A., 1887 |
| Ferrot, James, Halifax..... | R. A., 1868; M. A., 1872 |
| Fraser, Hon. D. C., New Glasgow..... | R. A., 1872 |
| Fraser, Rev. D. S., Mahone Bay..... | R. A., 1874 |
| Fraser, Donald, Pictou..... | R. A., 1877 |
| ‡ Fraser, W. M., Halifax..... | B.Sc., 1880; B. A., 1883 |
| Fraser, W. R., Pictou..... | R. A., 1882 |
| Fulton, G. H., M.D., C.M..... | R. A., 1876 |
| Fulton, W. H., Halifax..... | R. A., 1888 |
| Gammell, L., Pictou..... | R. A., 1885 |
| † George, Rev. J. L., M. A., Dartmouth..... | R. A., 1878 |
| Grant, David K., Elizerton, Pictou Co..... | R. A., 1888 |
| Grant, W. R., (obit.). | R. A., 1877 |
| Gregory, C. E., Antigonish..... | L.R., 1888 |
| Gunn, Rev. Adam, Kennebcock..... | R. A., 1872 |
| Hamilton, H. H., Pictou..... | R. A., 1877 |
| Hanright, Fred. W., B. A., Windsor..... | L.L.B., 1887 |
| Henry, William A., Halifax, N. S..... | L.L.B., 1886 |
| Herdman, Rev. J. C., B. D., Calgary, N. W. T..... | B. A., 1874 |
| | M. A., 1878 |
| Herdman, W. C., Pictou..... | R. A., 1874; M. A., 1881 |
| Herdman, A. W., Pictou..... | R. A., 1877 |
| Hiltz, C. W., (obit.)..... | M. D., C. M., 1862 |
| Hunter, John, California..... | R. A., 1873 |
| Ires, W. E., New Glasgow, N. S..... | L.L.B., 1885 |
| Jenison, Hedley V., Walton, N. S..... | L.R., 1885 |
| Johnson, George M., Upper Stewiacke, N. S..... | R. A., 1888 |
| Jones, Frank, Digby..... | R. A., 1884 |
| Jones, H. T., Halifax, N. S..... | L.L.B., 1888 |
| + Jordan, Rev. L. H., B. D., Montreal..... | R. A., 1878; M. A., 1878 |
| Kinnear, F. S., M. D., Centreville..... | R. A., 1889 |
| Knowles, J. H., Milton..... | R. A., 1882 |
| Laird, G. A., Manitoba..... | R. A., 1877 |
| Launder, R., Halifax..... | R. A., 1882 |
| Lane, Charles W., Pictou..... | L.L.B., 1887 |
| Langille, R. M., River John, Pictou Co., B. A., 1885; M. A., 1888 | |
| LeNoir, M. U., Halifax, N. S..... | L.L.B., 1885 |

^a Graduated with Second Rank Honours in Classics.

^b Graduated with First Rank Honours in English and English History.

^c Graduated with Second Rank Honours in Moral and Moral Philosophy.

^d Governor-General's Gold Medallist.

^e Governor-General's Silver Medallist.

^f DeMille Gold Medallist.

| | |
|----------------------------------------------------|-------------------|
| Lewis, Abner W., Central Ossipee, N. S. | B. A., 1886 |
| Lindsay, A. W. H., M. R., C. M., Halifax | B. A., 1870 |
| | M. D. C. M., 1875 |
| Lippincott, Aubrey, M. D., Pittsburgh, Pa. | B. A., 1867 |
| Locke, R. T., Lockport | B. A., 1885 |
| Logan, Rev. Richmond, California | B. A., 1877 |
| M. A., 1880 | |
| Logue, Melville, Halifax | B. A., 1873 |
| Lyons, William Alex., Halifax | LL.B., 1887 |
| McColl, A., New Glasgow, N. S. | B.Sc., 1883 |
| McCroskey, Charles A., Moncton, N. B. | LL.B., 1888 |
| McCully, Frank A., B. A., Sussex, N. B. | LL.B., 1887 |
| McCurdy, S. T., New Glasgow | B. A., 1877 |
| McDonald, J. H., (obit.) | B. A., 1867 |
| M. A., 1870 | |
| McDonald, Donald, Cape North, Cape Breton | R. A., 1884 |
| Macdonald, C. D., Pictou | B. A., 1873 |
| Macdonald, Ed. M., Pictou | LL.B., 1887 |
| Macdonald, W. M., Halifax | B. A., 1881 |
| Macdonald, J. A., Halifax | B. A., 1883 |
| LL.B., 1886 | |
| Macdonald, William, Pictou, N. S. | B. A., 1888 |
| McDowell, Isaac, (obit.) | R. A., 1876 |
| McGregor, Rev. Daniel, Amherst | R. A., 1874 |
| MacGregor, Prof. J. G., B.Sc., Halifax | R. A., 1871 |
| M. A., 1874 | |
| MacGregor, T. S., Boston, Mass. | B. A., 1882 |
| Melrose, Hector, Halifax | LL.B., 1888 |
| Mackay, Adams A., B.A., Halifax, N. S. | LL.B., 1888 |
| McKay, A. H., B.Sc., Pictou | R. A., 1873 |
| McKay, Rev. Kenneth, Richmond, N. B. | B. A., 1868 |
| * Mackay, Ebenezer, New Glasgow, N. S. | B. A., 1886 |
| Mackay, H. M., Paisleyville, Pictou Co., N. S. | B. A., 1888 |
| * Mackay, Neil F., West River, Pictou Co., N. S. | B. A., 1886 |
| McKeen, Rev. J. A., Hamilton, Bermuda | B. A., 1873 |
| * Mackenzie, A. S., Munro Tutor, Dalhousie College | R. A., 1885 |
| McKenzie, Hugh, Truro | B. A., 1872 |
| M. A., 1875 | |
| McKenzie, Prof. J. J., Ph.D., (obit.) | B. A., 1869 |
| M. A., 1872 | |
| McKenzie, Rev. James, Pugwash | R. A., 1878 |
| McKenzies, Rev. J. W., East St. Peter's | B. A., 1882 |
| Peter's, P. E. | |
| McKenzies, William J., West Bay, C. B. | R. A., 1883 |
| Mecham, Den. Alex., Charlottetown, P. E. I. | LL.B., 1887 |
| * McKittrick, Burgess, Sydney, C. B. | B. A., 1877 |
| McLatchy, Henry F., Hillsboro', N. B. | LL.B., 1887 |
| * McLean, I. M., M.D., Wallace | B. A., 1879 |
| McLean, Rev. J. A., Barrington | B. A., 1876 |

² Graduated with Second Rank Honours in Classics³ Graduated with Second Rank Honours in Mathematics and Mathematic. Physics⁴ Graduated with First Rank Honours in Experimental Physics and Chemistry.¹ Governor-General's Silver Medalist.² Sir Wm. Young Gold Medalist.³ MacKenzie Gold Medalist.⁴ MacKenzie Gold Medalist.

| | |
|------------------------------------------------------|-------------------|
| McLennan, Daniel, Port Hood, C. B. | LL.B., 1888 |
| McLennan, J. W., R.D., Sydney, C. B., B. A., 1883 | M. A., 1887 |
| | B. A., 1888 |
| McLennan, S. J., Sydney, C. B. | B. A., 1875 |
| McLeod, Rev. A. W., P. D., Vale, Pictou Co. | M. A., 1878 |
| | |
| * MacLeod, Ambrose W., Dunstaffnage, P. E. I. | B. A., 1888 |
| * MacLeod, George, Murray River, P. E. I. | B. A., 1888 |
| MacLeod, Rev. J. W., (obit.) | B. A., 1876 |
| M. A., 1889 | |
| MacLeod, J. M., M. A., Strathtallyn | P. E. I. |
| | B. A., 1874 |
| MacLeod, J. M., Valleyfield, P. E. I. | P. E. I. |
| | B. A., 1885 |
| + MacLeod, J. P., Valleyfield, P. E. I. | P. E. I. |
| | B. A., 1884 |
| * MacLeod, Malcolm J., Elmsford | P. E. I. |
| | B. A., 1887 |
| McMillan, Finlay, Sheet Harbour, N. S. | M. D. C. M., 1872 |
| | |
| * McMillan, Rev. G. W., Malpeque, P. E. I. | P. E. I. |
| | B. A., 1875 |
| McNaughton, Rev. Samuel, Preston, G. B., B. A., 1887 | M. A., 1879 |
| | |
| * McNeil, Charlotte M., Charlottetown, P. E. I. | B. A., 1887 |
| | |
| Macroe, Alex. W., St. John, N. B. | B. A., 1886 |
| McRae, William, (obit.) | M. D. C. M., 1872 |
| | |
| Magre, Edgar A., Annapolis | LL.B., 1888 |
| | |
| * Martin, R. J., Charlottetown, P. E. I. | P. E. I. |
| | B. A., 1883 |
| Mason, Rev. W. A., New London, P. E. I. | P. E. I. |
| | B. A., 1877 |
| Mellish, H., Pictou | B. A., 1882 |
| | |
| Matheson, J. A., Halifax, N. S. | B. A., 1888 |
| | |
| Miller, Rev. E. D., Lunenburg | B. A., 1869 |
| | |
| Miller, J. J., Halifax | B. Sc., 1885 |
| | |
| Milliken, Albert E., Moncton, N. B. | LL.B., 1886 |
| | |
| Mooney, F. C. C., Halifax | LL.B., 1886 |
| | |
| Moore, Edward, Chatham | M. D. C. M., 1872 |
| | |
| * Morrison, A. M., Dartmouth, N. S. | B. A., 1888 |
| | |
| Morrison, Anilay, Cow Bay, C. B. | LL.B., 1888 |
| | |
| Morse, C., Shubenacadie, N. S. | LL.B., 1885 |
| | |
| Morton, Joseph H., M. D., Shubenacadie | B. A., 1875 |
| | |
| * Morton, Silvana A., Milten, Queen's Co., N. S. | B. A., 1886 |
| | |
| Muir, W. H., L. & C. P. & S., Edin., Truro | M. D. C. M., 1875 |
| | |
| Munro, Rev. John, Antigonish, N. S. | B. A., 1878 |
| | |
| Munro, G. W., 17-27 Vandewater St., New York | B. A., 1878 |
| | |
| Murray, J. S., North Sydney, C. B. | B. A., 1877 |
| | |
| * Murray, D. A., Truro | B. A., 1884 |
| | |
| Newcombe, E. L., LL.B., Halifax | B. A., 1878 |
| | |
| M. A., 1881 | |

¹ Graduated with First Rank Honours in Classics.² Graduated with First Rank Honours in English and English History.³ Graduated with Second Rank Honours in Moral and Moral Philosophy.⁴ Graduated with First Rank Honours in Mathematics and Mathematical Physics.⁵ Graduated with Second Rank Honours in Mathematics and Mathematical

Physics.

¹ Governor-General's Gold Medalist.² Governor-General's Silver Medalist.³ Sir William Young's Gold Medalist.⁴ Munro Tutor in Mathematics, 1862-3.⁵ Munro Tutor in Classics, 1869-70.

| | |
|-------------------------------------------------------|---------------------------|
| *Newcombe, Margaret F., Ladies' College, Halifax..... | B. A., 1885 |
| *Nicholson, Alfred, M. A., Southport, P. E. I..... | B. A., 1886 |
| *Oakey, J. M., LL. B., Ottawa..... | B. A., 1874 |
| Patterson, G. G., New Glasgow..... | B. A., 1882; M. A., 1887 |
| Pithlado, Colin, Pres. Theol. College, Halifax..... | B. A., 1876 |
| Pollak, A. W., (obit.)..... | B. A., 1872 |
| Petman, Wm. G., Maitland..... | B. A., 1887 |
| *Reid, A. G., Edinburgh University..... | B. Sc., 1883 |
| *Ritchie, Elias, Halifax..... | B. L., 1887 |
| Robert Cassilair, Archibald, C. B..... | M. D., C. M., 1875 |
| Robertson, Henry McN., Burlington, N. S..... | LL. B., 1880 |
| Robertson, T. E., Annapolis, N. S..... | B. A., 1883 |
| +Robinson, Alex., Sackville, N. B..... | B. A., 1883 |
| *Robinson, G. E., Charlottetown, P. E. I..... | B. A., 1883 |
| Robinson, Rev. J. M., Spring Hill..... | B. A., 1883 |
| Rogers, Rev. Anderson, Yarmouth..... | B. A., 1857 |
| Rogers, Henry W., Amherst..... | LL. B., 1887 |
| Ross, Alexander, Dalhousie, N. B..... | B. A., 1870 |
| Ross, Rev. William, Prince William, N. B..... | B. A., 1873 |
| Russell, Rev. A. G., Oyster Bay, L. I., N. Y..... | B. A., 1871 |
| Rusell, Joseph A., Newcastle, N. B..... | LL. B., 1887 |
| Scott Rev. Ephraim, New Glasgow..... | B. A., 1872; M. A., 1875 |
| Scott Rev. Prof. H. MacD., R. D., Chicago..... | B. A., 1870 |
| Sout, J. Melb., (obit.)..... | B. A., 1877 |
| Sedgwick, J. A., Halifax..... | B. A., 1881; LL. B., 1885 |
| Sedgwick, Robert Q. C., Ottawa..... | B. A., 1877 |
| *Shaw, James C., Stanhope, P. E. I..... | B. A., 1887 |
| Shaw, Robert, (obit.)..... | B. A., 1886 |
| Simpson, Rev. Isaac, LeHave..... | B. A., 1898 |
| Smith, Rev. D. H., Truro..... | B. A., 1887; M. A., 1871 |
| Smith, Rev. Edwin, Stewiacke..... | B. A., 1887 |
| Smith, H. McN., Edinburgh University..... | B. Sc., 1884 |
| Smith, James F., Halifax, N. S..... | B. A., 1886 |
| Sloan, D. M., Windsor, N. S..... | B. A., 1888 |
| Spencer, Rev. W. H., Georgetown, P. E. I..... | B. A., 1881 |
| Stewart, Alex. F., Pictou..... | B. A., 1887 |
| *Stewart, Anna A., Pictou..... | B. Sc., 1886 |
| Stewart, Dugald, Upper Musquodobet, N. S..... | B. A., 1886 |
| Stewart, F. L., Charlottetown, P. E. I..... | B. A., 1883 |

¹ Graduated with First Rank Honours in Classics.² Graduated with Second Rank Honours in English and English History.³ Graduated with First Rank Honours in Moral and Mental Philosophy.⁴ Graduated with Second Rank Honours in Moral and Mental Philosophy.⁵ Graduated with First Rank Honours in Mathematics and Mathematical Physics.⁶ Graduated with Second Rank Honours in Mathematics and Mathematical Physics.

Physics.

⁷ Governor-General's Gold Medallist.⁸ Sir William Young's Gold Medallist.

GRADUATES.

| | |
|----------------------------------------------------------|--------------------------|
| *Stewart, J. McG., Pictou..... | B. A., 1876 |
| Stewart, Thomas, B. D., Pictou..... | B. A., 1882 |
| Stramberg, H. H., New Westminster, B. C..... | B. A., 1875 |
| Sutherland, Rev. J. M., Virden, Man..... | B. A., 1869 |
| Sutherland, Robert, (obit.)..... | M. D., C. M., 1872 |
| +Sutherland, J. S., St. Janes, Charl. Co., N. B..... | B. A., 1883 |
| Taylor, W. B., Halifax..... | B. A., 1884 |
| *Thompson, A. W., M. A., Durham, Pictou Co..... | B. A., 1885 |
| Thompson, Stanley R., Oxford, N. S..... | LL. B., 1886 |
| Thomson, A. E., Edinburgh University..... | B. A., 1880 |
| Thomson, Walter K., Halifax..... | LL. B., 1887 |
| Thorburn, W. M., Trichinopoly, Madras Pres., India..... | B. A., 1880 |
| Torrey, E. J., Winsdor..... | B. A., 1882 |
| Trotter, Arthur G., A. B., Dartmouth, N. S..... | LL. B., 1886 |
| Truscott, A. L., St. John, N. B..... | B. A., 1872; M. A., 1878 |
| +Truscott, J. S., Johns Hopkins Univ., Baltimore..... | B. A., 1892 |
| Tuffis, W. M., M. A., Halifax..... | B. A., 1883 |
| Turner, D. F. D., Lennox, G. B..... | B. A., 1904 |
| +Waddell, Prof. John, Ph. D., D. Sc., Kingston, Ont..... | B. A., 1877 |
| Wallace, Rev. John..... | B. A., 1870 |
| Wallace, W. B., Halifax..... | LL. B., 1885 |
| Walsh, Wm. W., Halifax..... | LL. B., 1885 |
| Wells, Wm. W., Point de Bute, N. B..... | LL. B., 1889 |
| Whitman, Alfred, Halifax..... | LL. B., 1883 |

¹ Graduated with Second Rank Honours in Classics.² Graduated with First Rank Honours in English and English History.³ Graduated with Second Rank Honours in English and English History.⁴ Munro Tutor in Classics, 1888-9.⁵ Governor-General's Gold Medallist.⁶ Governor-General's Silver Medallist.⁷ Graduated with Second Rank Honours in Mathematics and Mathematical Physics.

UNDERGRADUATES, 1887-88.

IN ARTS.

FOURTH YEAR.

| | |
|------------------------------------|---------------------------------|
| Brown, William..... | Brownville, Pictou Co. |
| Clarks, Daniel McDonald..... | West River, Pictou Co. |
| Fulton, Willard Hill..... | 35 Canard street, Halifax. |
| Grant, David Kenzie..... | Riverton, Pictou Co. |
| Johnson, George Millar..... | Upper Stewiacke, N. S. |
| Macdonald, William..... | Pictou, N. S. |
| Mackay, Henry Martyn..... | Plainville, Pictou Co. |
| McKenzie, William John..... | West Bay, C. B. |
| McLennan, Samuel John..... | Sydney, C. B. |
| MacLeod, Amence Watts..... | Dunstalpage, P. E. I. |
| MacLeod, George..... | Murray River, P. E. I. |
| Matheson, John Alexander..... | Boulardrie, C. B. |
| Morrison, Alexander McGonachy..... | Dartmouth, N. S. |
| Robertson, Thomas Reginald..... | Anapolis. |
| Solan, David..... | Windsor, N. S. |
| Stewart, Frank Ingram..... | Charlottetown, P. E. I. |
| Sutherland, John Sanders..... | St. James, Charlotte Co., N. B. |

THIRD YEAR.

| | |
|-------------------------------|--------------------------------|
| Allison, Edmund Powell..... | 73 Inglis Street, Halifax. |
| Bewen, Ernest Nicholson..... | Lower Newcastle, N. B. |
| Burkitt, Robert James..... | Athlone, Ireland. |
| Davison, James McGregor..... | 36 Charles Street, Halifax. |
| Fraser, Alexander..... | West River, N. S. |
| Fraser, John Kair Gaddie..... | Alberton, P. E. I. |
| Fraze, Victor Gladstone..... | Dartmouth, N. S. |
| Fulton, Edward..... | Lower Stewiacke. |
| Harvey, MacLeod..... | Newport, N. S. |
| Henry, Joseph Kaye..... | Sainte-rose, N. S. |
| Hewitt, Cornelius A..... | Winnipeg, Man. |
| Laird, Arthur Geddes..... | Charlottetown, P. E. I. |
| Macdonald, Robert James..... | Hopewell, N. S. |
| Faton, Vincent..... | 27 Tabita Street, Halifax. |
| Patnaik, Homer..... | Lower Gouldow, N. S. |
| Suthern, Allan William..... | 77 Birmingham Street, Halifax. |

SECOND YEAR.

| | |
|-------------------------------|-----------------------------------|
| Campbell, Donald Frank..... | East River, St. Mary's. |
| Chapman, Adolphus Eugene..... | Salisbury, N. B. |
| Cogswell, George Alfred..... | Port Williams, Kings Co., N. S. |
| Fisher, James Mitchell..... | Lower Stewiacke. |
| Fraser, John..... | Big Bras d'Or, C. B. |
| Fullerton, Charles Percy..... | Cumberland Co. |
| Fulton, Ebene..... | Middle Stewiacke, Col. Co., N. S. |

UNDERGRADUATES.

| | |
|----------------------------------|----------------------------------|
| Gratz, Humphrey Gilbert..... | Wassia Sta'n, Sunbury Co., N. B. |
| Grierson, Robert..... | 31 Charles Street, Halifax. |
| Lewis, Ernest William..... | Moncton, N. B. |
| McCallum, Hammond J..... | Warrington, P. E. I. |
| McKinnon, John Archibald..... | Cow Bay. |
| Mackintosh, Charles..... | Springville, N. S. |
| MacLean, John Normas..... | James River, Antigonish Co. |
| McLeman, Alexander Kenneth..... | Middle River, C. B. |
| MacLeod, Frederick Joseph..... | Tatamagouche. |
| Millar, George..... | Tirro, N. S. |
| Murray, Norman Frederick..... | Chatham, N. B. |
| Rates, Edward Joseph..... | Massabesic, N. S. |
| Rawlings, George Row..... | P. E. I. |
| Schurman, George Wellington..... | Barrington Passage, N. S. |
| Trefry, James Hartley..... | Barrington Passage, N. S. |

FIRST YEAR.

| | |
|------------------------------------|--------------------------------|
| Baxter, Agnes Sims..... | 2 Gas Lane, Halifax. |
| Beshant, James Williams..... | Murray Harbor, South, P. E. I. |
| Cameron, Simon Hugh Holmes..... | Dartmouth, N. S. |
| Cox, George Hastings..... | Shubenacadie, N. S. |
| Creighton, Graham..... | West River, Pictou Co., N. S. |
| Goodwin, Emily Mandie..... | St. John, N. B. |
| Geierson, John Arthur..... | Kentville, N. S. |
| Harrington, Emily Bevan..... | 164 Tower Road, Halifax. |
| Hugh, Douglas..... | Murray Harbor, P. E. I. |
| Jordan, Elijah John..... | " " " |
| Leor, Gerald Aldington..... | North-West Arm, Halifax. |
| Logan, John Daniel..... | Pictou, N. S. |
| McCollum, William..... | 119 Dresden Row, Halifax. |
| McCurdy, James Farquhar..... | Robie Street, Halifax. |
| McGlashan, John A..... | New Glasgow, N. S. |
| MacLean, John Simon..... | Hopewell, N. S. |
| McMillan, Charles Edward..... | Whycocomagh, C. B. |
| McMillan, Frederick Alexander..... | Alberry Plains, P. E. I. |
| McNaughton, Elizabeth.... | St. John, N. B. |
| Macrae, Archibald Oswald..... | St. John, N. B. |
| Magoo, William Henry..... | Town Plot, Kings Co., N. S. |
| Montgomery, John..... | Dalhousie, N. S. |
| Moore, Clarence L..... | Salisbury, N. B. |
| Morash, Albert Vlotoz..... | Lunenburg, N. S. |
| Oliver, Allyn Cushing..... | Litchfield, Digby, N. S. |
| Robertson, Seamus Napier..... | North Bedeque, P. E. I. |
| Robinson, Charles Bald, Jr..... | Pictou, N. S. |
| Thomas, James William..... | Willow Park, Halifax. |
| Trefry, Albert Harvey..... | Barrington Passage, N. S. |
| Turner, James Waddell..... | New Glasgow, N. S. |
| Tunstall, George Dykesman..... | Digby. |

IN LETTERS.

FIRST YEAR.

- Muir, Ethel.....Annandale Street, Halifax.
Worth, Callista Ann.....Mahon, C. B.

IN L.A. W.

THIRD YEAR.

- Armstrong, Ernest Howard.....Kingston, N. S.
Campbell, John Bay, Jr.....Dorchester, N. B.
Jones, Harry Trendway.....Halifax.
MacKay, Adams Archibald, B. A.....Wallace.
Magee, Edgar Allison.....Annapolis.
McNamee, Hector.....Pictou.
Morrison, Asley.....Cow Bay, C. B.

SECOND YEAR.

- Buchanan, Joseph Jost.....
Campbell, Alexander.....
Campbell, Alexander John, B. A.....Truro.
Cumming, Selden William, B. A.....
Denison, Harry Livingstone.....Kentville.
Forsyth, George Orman, B. A.....Greenwich.
Lovett, Harry Almon.....
McNeill, Albert Howard.....Charlottetown.
Patterson, George, M. A.....New Glasgow.
Ross, Henry Taylor, B. A.....Halifax.
Tobin, Thomas Finlayson.....Halifax.

FIRST YEAR.

- Armstrong, Bennett Homby.....Halifax.
Bower, William John.....Kingston, Kent Co., N. B.
Cahalane, Thomas Joseph.....Halifax.
Fairweather, Fred Lawrence.....Sussex, N. B.
Frans, Joseph Fulton.....Maitland, N. S.
Freeman, Charles Edmund.....Jordan River, N. S.
Hamilton, Charles Francis, B. A.....North Sydney.
Howay, Frederick William.....New Westminster, B. C.
Huggins, William Hugh.....Halifax.
Lockhart, Benjamin Alfred, B. A.....Lockhartville, N. S.
McBride, Richard.....New Westminster, B. C.
McNeil, Alexander, B. A.....Mahon, C. B.
McKee, Daniel Lachlan.....Little Bras D'or.
Notting, Thomas.....Truro, N. S.
Osley, Charles Howard, B. A.....Oxford, N. S.
Reid, Robert Lewis.....Kentville, N. S.

- Roberts, John Arthur.....Bridgewater, N. S.
Sinclair, John Archibald.....St. John, N. B.
Smith, John Arnold, B. A.....Truro, N. S.
White, Thomas Howland, Jr., B. A.....Shelburne.

IN MEDICINE.

FIRST YEAR.

- Campbell, George M., B. A.....150 Gottingen Street, Halifax.
Danlop, Edward Winlaw.....Salisbury, Shelburne Co., N. S.
Elliott, Charles S.....Stillwater, Guysborough Co.
Fraser, J. Frank.....West River Station.
Freeman, Nelson Porter.....Mill Village, N. S.
Gregory, George Augustus.....Chignowes, Shelburne Co., N. S.
McCharles, Roderick W.....Middle River, Victoria, C. B.
McDonald, Daniel.....Mahon, C. B.
McLeod, Roderick C.....Margaree, Inverness, C. B.
McMahon, Frank.....Aylesford.
Miller, C. H., B. A.....Bridgeport, N. S.
Murray, H. V.....Truro.
Parcell, John M.....Halifax.
Silver, John Payzant.....Halifax.

GENERAL STUDENTS, 1887-88.

IN ARTS.

| | |
|------------------------------|---------------------------------|
| Alexander, Laura M. | 87 Victoria Road, Halifax. |
| Borden, Henry Clifford | Grand Pra., N. S. |
| Burbridge, G. A. | 88 Robie St., Halifax. |
| Burn, Murdoch F. R. | R. E., Halifax. |
| Burns, Agnes V. | 18 Kent St., Halifax. |
| Burns, Nettie G. | " |
| Caldwell, Lillian Beaucham | Berwick. |
| Creighton, James William | Richmond, Halifax. |
| Daffis, Emily | 95 Morris St., Halifax. |
| Finlayson, R. A. | N. E. Margaret, C. B. |
| Fraser, Simon Alexander | Upper Nine Mile River. |
| Grierson, George | 162 Spring Garden Rd., Halifax. |
| Higgs, Benjamin Darby | Charlottetown, P. E. I. |
| Hyde, Cha. H. | Tralee. |
| Janes, Sadie M. | Dartmouth. |
| Jones, Alice | Bloomington, N. W. Arm., Hfx. |
| Lavrie, Mrs. L. D. | 61 Hollis Street, Halifax. |
| Lewis, Ernest Hastings | Morris Street, Halifax. |
| Liechti, Minna Louise Mary | Spring Garden Road, Halifax. |
| Logan, J. Herbert | Gottingen Street, Halifax. |
| Macdonald, Alvin Fraser | Hopewell, N. S. |
| MacGregor, Isabel Fosman | 130 Gottingen Street, Halifax. |
| Mackay, Charles | Halifax. |
| Mackay, Murdoch S. | 84 Morris Street. |
| Mackenzie, H. Gertrude | Dartmouth. |
| Mackintosh, Mary | 37 Tower Road, Halifax. |
| MacLean, Margaret J. | 82 Ingles Street, Halifax. |
| McLennan, Charles Prescott | Halifax. |
| McLeod, Thomas Chalmers | Sydney, C. B. |
| Martin, Donald McLean | Mt. Forest, Ontario. |
| Milroy, Anna M. | York, N. Y. |
| Morrise, Marion L. M. | 99 Morris Street, Halifax. |
| Manro, Christopher | Valleyfield, P. E. I. |
| Murray, Antoinette Noelbeck | Studley, Halifax. |
| Murray, F. W. | |
| Murray, Robert L. | North Sydney, C. B. |
| Newcombe, Margaret F., B. A. | Ladies' College, Halifax. |
| Pache, Geo. P. | Sussex, N. B. |
| Paton, Georgina | 27 Tobin St., Halifax. |
| Puttner, Chauncy H. | Morris St., Halifax. |
| Pye, Geo. Francis | Dartmouth. |
| Ritchie, Ella Ahern | Belmont, Halifax. |
| Ritchie, Mary W. | Belmont, Halifax. |
| Scott, Lillie | 50 Ingles St., Halifax. |

GENERAL STUDENTS.

| | |
|------------------------------|----------------------------|
| Seth, Linzie J. | Tobin St., Halifax. |
| Seth, Maggie | " " |
| Slayer, Clara M. | 64 Argyle St., Halifax. |
| Stewart, Elizabeth Helen | Pictou. |
| Stewart, Maria Louise Jessie | Pictou. |
| Teasdale, Hattie | 26 Brunswick St. |
| Thompson, Alfred Stuart | Dutch Village, Halifax. |
| Thompson, F. W. | Merigomish, N. S. |
| Thomas, Mary Alice | Willow Park, Halifax. |
| Troup, Mrs. | 88 Victoria Road, Halifax. |
| Twining, Florence J. | 98 Morris St., Halifax. |
| Worthylake, Edward Utley | Brighthelm, Digby N. S. |

IN LAW.

| | |
|----------------------------|---------------|
| Grey, George Patrick | Halifax. |
| Howitz, Cornelius A. | |
| Hyde, Charles Hiram | Truro. |
| McDonald, William | Pictou, N. S. |
| Paton, Vincent John | |
| Ritchie, James Donaldson | Halifax. |
| Robertson, Thomas Reginald | Annapolis. |
| Stevens, Daniel J. | Truro. |
| Whitford, J. Arthur | Bridgewater. |

SUMMARY.

FACULTY OF ARTS.

| | |
|---------------------------|----|
| Undergraduates in Arts | 66 |
| Undergraduates in Letters | 2 |
| General Students | 56 |

| | |
|------------------------|-----|
| Students, Arts Faculty | 144 |
|------------------------|-----|

FACULTY OF LAW.

| | |
|------------------|----|
| Undergraduates | 38 |
| General Students | 9 |

| | |
|-----------------------|----|
| Students, Law Faculty | 47 |
|-----------------------|----|

FACULTY OF MEDICINE.

| | |
|-----------------------------------------------|-----|
| Undergraduates | 14 |
| Students, Faculties of Arts, Law and Medicine | 205 |

| | |
|-------------------------------------------|---|
| Deduct, studying in more than one Faculty | 1 |
|-------------------------------------------|---|

| | |
|-------|-----|
| Total | 204 |
|-------|-----|

THE ALUMNI ASSOCIATION.

(Incorporated 1876.)

EXTRACT FROM THE LAWS.

1. The object of the Association shall be the promotion of the interests of the University.
2. The Association shall consist of Ordinary and Associate Members.
3. All Graduates of the University, all persons who during at least one academic year have been registered students either of Dalhousie College or of Colleges which have been merged or united with Dalhousie College, and all other persons who have at any time been educated by means of the funds of Dalhousie College, shall be eligible for ordinary membership. But no persons other than graduates shall become members until three years have elapsed from the date of their first entering the College, except by special permission of the Executive.
4. Persons not eligible for membership under Section 3 may be elected Associate members.

OFFICERS:

| | |
|----------------------------------------------|-----------------------------|
| J. G. MacGREGOR, D. Sc. | <i>President.</i> |
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| HOWARD MURRAY, B. A., | |
| CHARLES A. ROBINSON, | |
| H. W. C. BOAK, LL. B. | <i>Secretary.</i> |
| JAS. A. SCHENKEL, LL. B. | <i>Treasurer.</i> |
| HECTOR MCNEIL, LL. B., | |
| WILLIAM D. CAMERON, | |
| CHARLES H. CARAN, B. A., | <i>Executive Committee.</i> |
| ALFRED WHITTEK, LL. B., | |
| JOHN MENGIER, | |
| SECRETARY'S OFFICE.—14 Bedford Row, Halifax. | |

APPENDIX.

EXAMINATION PAPERS, 1887-88.

MATRICULATION

END

JUNIOR MUNRO EXHIBITIONS AND BURSARIES.

LATIN.

Examiner JOHN JOHNSON, M. A.

CESAR: GAULIC WAR, BOOK I. OVID: METAMORPHOSES,
BOOKS IV., V. SELECTED FABLES.

TIME: THREE HOURS.

N. B.—Candidates for Matriculation in Arts will take Part IV.
and either Part I. or Part II. Candidates for Exhibitions
and Bursaries will take Parts I., II., III.

I.

A. Translate:

(Antevidet respondit): Se prius in Galliam venisse, quia Populus Romanus. Nonquam ante hoc tempore exercitus Populi Romani Gallia province fuisse existimat. Quid ab ali vellet? Cur in eis possessiones venirent? Provinciam suam hanc esse Galliam, atque illam nostram. Ut ipi concilii non opereretur, si in nostris fucis impetraret, sic item nos esse iniquos, qui in sui pars se interpellareamus. Quod features a Senatu. Ediles appetentes dicunt, non se habem barbarum, neque tam imperium eum retinat, et non adire, neque bellum Allobrogum proxime. Edios Romanos auxiliis tulisse, neque ipsos in his contendisse, quas dedit secum et cum Sogdiani invaserint, auxilio Populi Romani esse esse. Debere se supicari, simulata Caesarum amicitia, quod exercitum in Gallia habeat, cui appresentandi causa

habere. Qui nisi deredat atque exercitata deducat ex his regionibus, non illum non pro amico, sed pro hoste habitarum: quid si eam interficeret, anfis sua ostendibus principitatisque Populi Romani gratiam esse factorum; id se ab ipsius per eorum nuntios conspicuta habere, quorum causam gradum atque amicitiam ejus morte redire posset.

1. Explain to whom or what these pronouns refer: "sibi," "suis," "hunc," "ille," "ipsa."
 2. What is unusual in the use of "suis," "nosterus," "interpellatus?"
 3. (a) "Populus," "provinciae," "fides," "ille," "bello," "Romani"; (b) "reliet," "interpellatus," "reliet," "Ausbac-
tum"; account for case, mood and tense.
 4. "Quid sibi reliet? Car in eis processiones renire?" — at
ipso concili non spaciunt, si in nostris flavi impetrant, sic nos-
ci eis iniquos qui in suo iure si interpellatissima. Change this
report into the actual words used.
 5. Show by a map the situations and boundaries of (a) Aqui-
nia, (b) the ager Helvetiorum, as described by Caesar, giving ancient
and modern names.

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- B. Translate :

Eoce vesti naria praefixa coenita roste
Salced squalus, juvencus sedatissima acta laesit;

Sic fera, dimotus impulso potecta unda,
Tantum aberit scopula, quangan Balnearia terro

Tendo potest plumbi medi transmittentes coll;

Quia subito iuvena, pediles tellure repulsa,
Arctus in subes ablit. Ut in square summae

Unita viri tua est; viam fera sentit a umbra,

Ungue Jovis precepis, vacuo quam vicit in arvo

Frigida, tenuis, pectus, Phoebo Bi-entia ducronem,

Oscipat areola, tenuis, non aveva, retequac ora,

Symphysis avida, pectus, tenuis, anguis;

Sic ederi missas propea per intersticio

Terga fera pressat, dextre frumentis in armo
Inschides ferrum corva temis abdidit basco,

Valnere lessa, gaudi modis se subtilia in armis

Attollit, modis solidit aqua, modis se ferocia

Versus apie, quae pessu terra canere circunspicit, servet.

1. "Quoniam Balenaria terti. Fonds poset," etc. Analyze this clause.
 2. "Inachidae." Tell his story.
 3. "Emerica," "scopulae," "propea," "arm," "squamigerus," "kennos"; account for cases and give the nom. and gen. sing. and pl. of each.
 4. (a) *Cocytibes maris cinxisse Semiramis artem.*
 (b) *Et triplices operis Minyedolas alii.*
 (c) *Classerat Hippotades astenos caroore ventosa.*
 Write explanatory notes.
 5. A short sketch of Ovid.

三三

- Mark the gender and declension:
 (a) in the sing.: *pelvus*, *dorsus*, *Persea*.
 (b) in the pl.: *spinae*, *scrotae*, *locis*.
 - Note peculiarities in the declension of:
sēra, *pelago*, *requiem*, *spolia*, *jageribus*, *vespera*.
 - Name the part of the verb in which the following words are found, and give their chief parts:
sentit, *amor*, *eritio*, *agacunt*, *repulsi*, *desist*, *fare*.
 - Distinguish the meanings of:
mānūst, *mānūst*; *clītēs*, *clītēs*; *sērē*, *aero*; *scīdē*,
scīdē; *trīs*, *trīs*; *calidēs*, *calidēs*; *cītēs*, *cītēs*.
 - Scan these lines, noting any peculiarities of scansion:
 (a) *Tastante aberto scopula, quantum Balcaria torto.*
 (b) *Ardens in names abit, Ut in sequere summo.*
 (c) *Jactari quo cerni in Iorio immenso.*
 - What verbs govern two accusatives? Give one example of each.

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- Decline throughout. (a) If you take Part I., "tempus," "exordium," "a-una," "er," (b) if you take Part II., "navis," "a-nquore," "alla."
 - Compare: *satis*, *similis*, *color*, *magnus*, *bene*.
 - Write the Latin for: 16, 28th, 438.
 - Give the same case in the plural of:
ostia, *senaria*, *vix*, *que*, *mibi*, *nulli*.
 - Write the sing. in the pres. and fut. indic., and in the pres. subj. of: *vide*, *cōb*, *sam*.
 - Give the corresponding forms in the passive of: *amus*, *wadim*, *rage*, *rager*, *dixim*.
 - Parse, giving chief parts:
(a), if you take Part I.: "censere," "openerit," "oppī-mūdi," "interiorib," "compartere."
or (b), if you take Part II.: "præfossor," "visu est," "abſidit," "laesa," "atollit."

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8. Translate into Latin: The general sent a letter to the Senate.—Give me that book.—Whose house was burning?—Having taken the city, the enemy returned.—The soldiers were standing on the top of the wall.—He will be punished severely on account of his base deed.

GREEK.

Examiner, John Johnson, M. A.

XENOPHON: ANABASIS. Books II. III.

Texas Town Home

N. B.—Candidates for Matriculation in Arts will take Part IV., and either Part I. or Part II. Candidates for Exhibitions and Bursaries will take Parts I., II., III.

1

A. Translate :

1. Καὶ γὰρ εἶδεν ἀσθέατον ὃν τοις πάτερσι τ. λ. What is irregular in the construction of this sentence? Account for the cases of ἀσθέατον—πάτερσι—τοις εἶδεν αὐτὸν.

2. *quidam* et *et* et *quidam* *et* *quidam*. Analyze and account for each. What differences would you observe for *quidam* words?

3. *εἰδέ... δῆθε διέβησεν*,—*εἴδε λειτεῖς γέ τοι ἀπομεινεῖ μακρὸν
εἶδε... δῆθεν εἰς βούλαιαν*, & *εἴδε τοι εἰς ιατρὸν αὐτοῦ*. By what
construction would each of these dependent clauses be expressed in
Latin? Write the first of these sentences in Latin. What is the rule
for double negatives in Greek? When does this rule hold good in
Latin?

4. By what phrases does Xenophon express—"at daybreak," "at sunrise," "about midnight," "towards evening," "in the forenoon," "at sunset?"

5. Give the meaning and derivation of:

διαρκεσία, ματαιότητα, λαθαργία, γέλασμα, ιδιαίτερος, απεγνωσίας,
είπεν ο ίδιος.

三

B. Translate:

Πάτη είναι η μελλοντική πόλης σύγχρονης, δυστι ως ονοματική μέτωπη της πορείας, εφεδρούτης της της πρότυπης δια και λεπτών. 'Ασσος δ' είναι δι τη σπουδαίωτας φύση 'Τολον, ού τοις πολλούς γενούς θεοτοκίας επενδύει,

παι τη βίλας αέτων και δυστίκων φύρωσεν τὸν Πειραιών προφέτην, Ἡρόδην γάρ, δοῦ λόγου περιβάλλοντας ταῦτα λίθινα σφραγίδαν, την βροχή μέμονται, εἰδὲ γέ
Πόλιν ταῦτα ποιεῖσθαι περιβάλλοντας γράψει. Ήπει τὸν αἵτοντα πειραιώτα περιβάλλοντας πέτραναν σφραγίδαν, καὶ πάσιν μὴ δύοντα αἵτοντα πειραιώταν, τῷ πόλεμῳ πλεύσαντας ἀλλοιούσι τοῖς αἵτοντας πειραιώτας, ταῦτα τοῖς φαντασίαις λοιποῖ βρέθησαν.

- Give briefly the rules for the use of genitives of nouns and pronouns in this passage, and write the nom., and gen., sing., of each in full.
 - Infinitives are used in some constructions in the extract where they would be inadmissible in Latin; what would be used instead?
 - Give the meaning of the following phrases found in the prescribed books:
 - de ceteris dicitur.*
 - impeditur malorum magistrorum rite ordinari.*
 - rūtū dicitur.*
 - alium lycium.*
 - præstigiis et studiis et dilectione.*
 - opus est sic dicere.*
 - etiam Kipos drifter—etiam Kipos refrigerare.*
 - What measures of length are mentioned in these books? Give their equivalents in English measure.
 - How does Xenophen tell us he came to join the expedition?

III

1. Write the nom., gen., and acc. sing. and dat. pl. (if in use) of: *dalyan*, *čvora*, *režis*, *naučiv*, *spisiv*, *člana*, *článk*, *čla*.
 2. What forms in the other degrees of comparison correspond accurately to:
 - (a) *elder*, *older*, *earlier*, *higher*, *older*.
 - (b) Write in words: 4,957—49 ships—on the 27th day.
 - (c) Indicate by letters: 6, 15, 1846.
 3. (a.) Write in words: 4,957—49 ships—on the 27th day.
 4. What pronouns have the nom. sing. neut. in -o?
 5. Write augmented forms of verbs compounded with *vapl*, *vapl* πρά. Give some examples of double augment.
 6. Write (a) perf. infin. in act. and passive of: *členit*, *článit*, *vyčlenit*.
 7. (b) 2nd sing. 1st acc. imperative in all voices of: *článit*, *spisit*, *článit*.
 8. (c) the modal conjugation of: *článit*, *článovat*, *článit*.
 7. Parse, giving the chief parts, in use:
 - In Extract A—*dalyan*, *čla*, *článit*, *článk*;
 - In Extract B—*článovat*, *článovat*, *článovat*, *článovat*.

C. Translate into Greek :

The father loves his son.—Phallines, having heard this, laughed and said : " You speak plausibly young man."—From the Tigris they marched twenty paces to another river, a plethros in width.—They remained there three days.—Their enemies, having set fire thus, departed.—They threw the rest into the fire.

IV.

1. Decline together (a) in the sing. : αὐτὸς ἀλιάρνης—τοῖς ἀργός—
(b) in the plural : τοῖς ἀργός—αὐτοῖς ἀλιάρνησι.
2. Write in full the nom. cases sing. and plural of : τούτων, αἱρέσθι,
τηρεῖ, ἀλιάρνησι, ἡ.
3. Compare : ἀλιάρνη, εὐπόρη, εἰδαναντεῖ, πέντε, αὐτοῦς.
4. What is the Greek for : 14, 8th, 490.
5. Write the augmented forms of initial vowels and diphthongs in verbs. Where is the augment used ?
6. What are the reduplicated forms of verbs beginning with ο, ε,
ατ, ἥ, αι, εη, ζ.
7. Write the medial conjugation of : λέω, εἴη, λέγων.
8. Form the aor. infin. act. in use of :
λέων, τρέπει, μάθει, αγγείλλω, λέγω, διδάσκω.
9. Decline through all the persons, giving both contracted and open vowels :
έπειον, γεγράψαντο, τραπέζη.
10. Parse, giving chief parts in use, according as you have taken Part I or Part II :

Eller, ενεργών, ἴντερπει, φοβήσαντο, ταῦθις, ἴντερπει. (In Extract A.)

Or, διλ, ἴμπεριψάπτει, ἔπειρη, ἄλιάρνη, φαρεύτει. (In Extract B.)

FRENCH.

Examiner..... J. LEBHITZ, M. A.

(Matriculation Examination, Faculty of Arts.)

TIME : THREE HOURS.

- A. Translate :—*Histoire de Charles XII.*—Le premier livre qu'en fit lire fut l'ouvrage du Samuel Paffendorf, aîn qui s'il considère de bonne heure ses Etats et ceux de ses voisins. Il aîn fut d'abord l'allemand, qu'il parla toujours depuis aussi bien que sa langue maternelle. A l'âge de sept ans il avait manier un cheval. Les exercices violents où il se plairait, et qui débroussaient ses inclinations martiales, lui fournitrent de bonne heure une constitution vigoureuse, capable de soutenir les fatigues où il portait son tempérament. Quelque doux dans son enfance, il avait une opiniâtreté insurmontable : le seul moyen de le prier était de le parler d'honneur ; avec le mot de gloire on obtiennat tout de lui. Il avait de l'aversion pour le latin ; mais dès qu'en lui eut dit que le roi de Pologne et le roi de Danemark

MATRICULATION AND JUNIOR BURSARIES.

vii

l'entendaient, il l'apprit bien vite et en retint assez pour le parler le reste de sa vie.

1. Parse and give the primitive tenses of the following verbs : *faner*, *appeler*, *parler*, *assaut*, *esfu*, *dit*. Write down in full the subjunctive present of *faner*, *parler*, *esfu*, and *dit*.

2. *De huit heures.* Put this clause in the comparative degree. Write the comparative and superlative of *biens*, *beaucoup*, *moins*, *peu*. Turn into French : It is too early. He, too, is in town. A very well written letter. What time is it? It is 12 o'clock. Half-past one. Five minutes to three.

3. *Quelques jours dans son enfance.* Parse *son*, and write its femin., sing., and plural. When may *son* be used before a noun, *noun?* Give an example. Translate : *Its value*; *its courage*; *its pleasures*. Her father and mother. His Majesty George III. Her Majesty Queen Victoria.

4. *Doux.* Write the feminine of the following adjs. : *doux*, *joli*, *parfait*, *parfaite*, *anc*, *public*, *maison*, *fruits*, *bossu*; and the masculine of : *vieille*, *vieille*, *vengeresse*, *protectrice*, *câtre*, *vie*.

5. *Et en regard case.* Parse *cas*, and write this clause, substituting for *cas*, the term for which it stands. In what case or cases do you translate the English "some" or "any" by *de chose*? Give short examples. Turn into French : I have friends; have you any? I have two good ones.

B. *Charles XII.*—Il partit pour sa première campagne le 8 mai, de l'année 1700. Il quitta Stockholm, où il ne revint jamais. Avant de sortir de Suède il établit à Stockholm un conseil de défense, composé de plusieurs sénateurs. Cette commission devait prendre soin de tout ce qui regardait la flotte, les troupes, et les fortifications du pays. Le corps du sénat devait régler tout le reste provisoirement dans l'intérieur du royaume. Ayant ainsi mis un ordre certain dans ses états, son esprit, libre de tout autre soin, se s'occupa plus que de la guerre. Sa flotte fut composée de quarante-trois vaisseaux : celui qu'il monta, nommé le Roi-Charles, le plus grand qu'on ait jamais vu, était de cent vingt pièces de canon, le comte Piper, son premier ministre, et le général Biemond, s'y embarquèrent avec lui. Il joignit les escadres des alliés.

1. *Il partit pour sa première campagne.* Write this sentence in the negative—interrogative form. What other meaning is composed susceptible of? How do you change primitive into *de chose*? Turn into French : I spent (passer) a fortnight in the country. Nova Scotia is my native country. Bismarck is Germany's Prime Minister.

2. *De tout ce qui regardait la flotte.* Parse *ce qui* and distinguish between : *tout ce qui* and *tout ce que*, giving two examples. Write the femin., sing., and the mascul., plural of *tout*, and translate : I have seen (vis) them all. All England. Everybody. The whole town. Give me the whole of it.

3. *Le plus grand qu'en ait.* Parse *au* : why is it in this form? Can you explain the difference between : *compte* and *comte*. Translate : The least difficulty. Give me more. Much better. Most men.

4. *S'y embarqueront.* Parse *s'y*. Conjugate the indicative present of the reflexive verb *s'embarquer*.

5. *Fingt piées de canon.* Could you use *des* instead of *de* in such clauses? Illustrate your explanation with short examples. Does every one admit of the plural *s* : *why*? Translate : Eighty men. Eighty-five pounds. One hundred houses. Five hundred dollars. The 11th of October, 1887 (in letters).

ENGLISH.

ENGLISH LANGUAGE.

Examiner..... W. J. ALEXANDER, Ph.D.

TIME : THREE HOURS.

(Candidates for matriculation in Arts merely are to answer the first three questions, and any three of the remainder.)

1. Write out and punctuate the passage dictated. (From Ruskin.)
2. Analyze the passage dictated as far as "say it all."
3. Parse in the passage supplied, but : also the words in italics in the following : Society goes on accumulating wealth. He was about retracing his steps.
4. Combine each of the following groups into one complex sentence :
 - (a) The king had promised to abolish certain abuses ; these abuses were such as illegal imprisonment, tampering with the judges, etc. ; but he began to govern without a parliament ; and forthwith resorted to these abuses as a matter of course.
 - (b) The Long Parliament met ; Pym's work now really began ; he was already past middle life ; he was born in 1594 ; four years later came the Armada ; from the beginning of the Parliament Pym displayed the qualities of a great administrator ; these are an immense faculty for labour, a genius for organisation, an iron will, tact, courage and moderation.
5. What is an *infinitive*,—a participle? Explain historically the various forms assumed by the infinitive in modern English.
6. What are the main points of difference between the English language at the present time, and at the time of Alfred the Great?
7. Define accurately and give derivation of two of the following words :—assent, respectively, transpire, crescere, edere, genitice, pernicious, libidinous, hirsut, concrematus, macrourus, carnosus [meat], oenophagous, catholic.
8. Express as accurately as possible in simple prose the substance of the following :

TO A WATERPOW.

Whither, whilst falling down,
While glow the heavens with the last steps of day,
Far, through their rosy depths, doth then pursue
Thy solitary way ?

Vainly the fowler's eye
Might mark thy distant flight to do thee wrong,
As daintily seen against the crimson sky,
Thy figure floats along.

Seest thou't the plashy brink
Of weedy lake, or margin of river wide,
Or where the rocking billows rise and sink
On the chafed ocean-side ?

There is a Power whose care
Teaches thy way along the pathless coast—
The desert and illimitable air—
Lone wandering, but not lost.

ENGLISH AND CANADIAN HISTORY AND GEOGRAPHY.

Examiner..... PRESIDENT FORREST.

TIME : THREE HOURS.

(Candidates for Matriculation only, may omit any three questions in each section.)

ENGLISH HISTORY.

1. Give a brief account of Roman occupation of Britain with dates. Trace effects.
2. Give the leading events of reign of Henry II.
3. Give a brief account of the political and social condition of England, under the Tudors.
4. Tell briefly the story of the struggle between Charles I. and the Parliament.
5. What events led to the Revolution of 1688?
6. Give the leading events of the reign of George III.
7. Write a short account of the first Afghan war.
8. What was the Navigation Act? When was it repealed?

CANADIAN HISTORY.

1. When, where, and under whom, did the French make their first settlement in Acadie? When did the English come?
2. Give a brief account of Jacques Cartier's first voyage to Canada.
3. A. D. 1744 : "When news of the war reached America, Du Quesne¹ the Governor of Louisburg, sent Du Vivier with a strong force against Nova Scotia." Give a brief account of the expedition.
4. What effect had the war of 1812 upon Nova Scotia?
5. How did the war of 1812 end?
6. 1854 : "A new government was formed in Canada, of which the leading members were Sir Allan McNab and John A. McDonald. Three important measures characterized the beginning of its reign." What were they?
7. Give a short account of the St. Albans' raid.

GEOGRAPHY.

1. What is meant in geography by watershed, basin, steppe, bight, lagoon?
2. Give the coast waters of Asia.
3. Bound Pennsylvania, Turkey in Europe, Brazil, Luxembourg County, Albert County, N. B.
4. On which side of the equator is Trinidad? Demerara? Cairo? Calcutta? Borneo?
5. Through what countries and large islands does the Tropic of Capricorn pass?

6. To what powers belong Azores? Corso? Heligoland? Batavia? Manila? Hamburg? Formosa? Java? Cyprus?
7. Locate St. Louis, Cayenne, Lyons, Madrid, Palermo, Silea, Mount Blanc, Monte Rosa, Mt. St. Elias, Mt. Everest.
8. What are the chief exports of the United States? Australia? Nova Scotia? Jamaica? Portugal?

MATHEMATICS.

Examiner..... C. MACDONALD, M. A.

GEOMETRY AND ALGEBRA.

(Mathematics in Arts.)

TIME: THREE HOURS.

1. If from the ends of the sides of a triangle, there be drawn two straight lines to a point within the triangle, these shall be less than the other two sides of the triangle, but shall contain a greater angle.

2. If a straight line falling on two others make either (1) the alternate angles equal; or (2) the exterior angle equal to the interior and opposite on the same side, these two straight lines shall be parallel.

3. If a straight line be divided into any two parts, the rectangle contained by the whole line and one of the parts, is equal to the rectangle contained by the two parts, together with the square of the aforesaid part.

4. Prove, either by a diagram or in any other way, that if a straight line be bisected and produced to any point, the square of the whole line thus produced, and the square of the part it produced, are together double of the square of half the line bisected, and of the square of the line made up of the half and the part produced.

5. Given the measurements of the three sides of a triangle. Explain an easy way of determining its shape, whether acute, obtuse or right-angled.

6. Take the decimal .999993; and write in words the value of each separate digit. Hence deduce the rule for converting a finite decimal into a vulgar fraction; using the given decimal as an example.

7. Write the expansions of $(a+b)^3$ and $(a+b+c+d+e)^3$; and deduce the expansions of $(a-b)^3$ and $(a-b-c-d+e)^3$ from the result.

8. Express as one fraction $\frac{1}{(a-b)(a-c)} + \frac{1}{b(b-a)(b-c)} - \frac{1}{abc}$; and divide $x^6 - mx^4 + nx^2 - px^2 + qx^2 - 1$ by $x-1$. (By bracketing, if you can.)

9. Show that $\frac{\frac{1}{\sqrt{ab-ac}} - \frac{1}{\sqrt{bc-ab}}}{bc-c\sqrt{ab}} = \frac{1}{b}$, and that

$$\frac{\sqrt{ab-ac} - \sqrt{bc-ab}}{bc-c\sqrt{ab}} = \frac{1}{b}.$$

10. Solve either of the following questions: (1) Given $a + \frac{b}{ax} = a^2 + b^2$: to find x : (2) In a cricket match the score of A, the best batsman on one side, was to that of B, the second best, as 3:2; but if A's score had been 7 less, and B's as much greater, B would have surpassed A in the proportion of 5:4. Find their scores.

GEOMETRY.

(Exhibitions and Bursaries.)

TIME: THREE HOURS.

1. If from the ends of the sides of a triangle, there be drawn two straight lines to a point within the triangle, these shall be less than the other two sides of the triangle, but shall contain a greater angle.

2. Assuming the construction of the 47th proposition of the First Book of Euclid: analyse the proof of it, pointing out the main things proved, but omitting the details of the proof.

3. In any triangle the square of the side opposite an acute angle is less than the squares of the sides containing it by twice a certain rectangle. Say what rectangle; and prove the proposition for an obtuse-angled and also for a right-angled triangle.

4. A tangent to a circle is at right angles to the radius drawn from the centre to its point of contact.

5. If a straight line touch a circle, and from the point of contact say chord of the circle be drawn, the angles between the chord and the tangent are equal to the angles in the alternate segments of the circle, each to each.

6. A BC is a triangle, D and F the middle points of AC and AB. Join BD, and produce it to P, making DP=BD. Produce CF similarly to Q. Prove that P, A, Q are in the same straight line.

7. If from a point within an equilateral triangle lines be drawn to the angles, any two of these are greater than the third.

8. On a given straight line describe a rectangle equal to the difference of two given squares.

9. If a quadrilateral have one of its angles at the centre of a circle, and the other three in its circumference, the middle one of the three is equal to the other two.

10. A B is the diameter of a circle, and AC that of another circle which touches it internally in A. P Q is a double ordinate of the outer circle to the diameter A B, cutting it in N, and Q the point where it cuts the inner circle. Prove P Q. Q R = B C. X A.

ALGEBRA.

(Exhibitions and Bursaries.)

TIME: THREE HOURS.

1. A watch that regularly gained $\frac{1}{24}$ minutes a day, showed true time on Monday at noon: what is the true time on the following Friday when the watch points to 4h. 30' P. M. ?

2. A number in the common scale, expressed by more than two digits, ends in the digits 51. Show that its odd powers end in the same digits.

3. Prove by actual division, that if x^2+ax+b^2 is a factor of $x^{2k}+bx^k$, then must $a=\pm b = -c$; and resolve into quadratic factors $2x^4+5x^3y+17x^2y^2+13xy^3+3y^4$.

4. Expand by division to four terms $\frac{a^{-\frac{1}{2}}}{x^2-a^2}$: and write the result (1) with positive indices, (2) with negative indices.

5. Show, by factoring if you can, $(m^2+n^2)^2-(m^2-n^2-2mn)^2=(m^2-n^2-2mn)^2-(m^2+n^2)^2$; and find the Highest Common Factor of $8x(2x^4-6x^3-5x^2+11x-10)$ and $8x^2(4x^4+6x^3-4x^2-15x-15)$.

6. Reduce to its simplest form $\frac{\left(\sqrt{a^2b^2c^2}\right)^6 \left(\sqrt{a^2b^2c^2}\right)^4}{a^8b^6c^3\sqrt{a^2}}$

7. A, B, C, D are four algebraic expressions; a is the Highest Common Factor of A, B, C; b, of A, B, D; c, of B, C, D; also a, b, c, d are prime to each other; find the L.C.M. of A, B, C, D.

8. Solve the equation, $\frac{x}{2} - \frac{\frac{1}{2}(2x-3) - \frac{1}{2}(3x-1)}{\frac{1}{2}(x-1)} = \frac{3}{2} \frac{x^2+2}{2x-2}$.

Also A, B, C, M., being algebraic expressions involving x, describe how you would deal with the following equation:

$$\frac{A}{20} \pm \frac{B}{9} \pm \frac{C}{12} \pm \frac{D}{15} \cdots = \frac{E}{7x-4}$$

9. Given $x(x+y+z)=a^2$; $y(x+y+z)=b^2$; $z(x+y+z)=c^2$; find x, y, z.

10. A full cask that held a gallons was treated thus: b gallons were drawn off, and the cask was filled up with water. b gallons were again drawn off and the cask again filled up with water. This process is repeated, in all, n times. On the supposition of the equal diffusion of the liquid in the water, prove that now the amount of

the original liquid in the cask is $\frac{(a-b)^n}{a^{n-1}}$.

SENIOR MUNRO EXHIBITIONS AND BURSARIES.

A.—CLASSICS.

LATIN.

Examiner..... JOHN JOHNSON, M. A.

HORACE : Odes, Book IV. CICERO : SELECTED LETTERS.

TIME: THREE HOURS.

A. Translate :

Phoebus volvante procula me loquim
Vixit et urbis incognitum lyra,
Ne parva Tyrrenum, neque sequebr
Vela ducunt. Tua, Cassara, actas
Fruges et agris retinacu lochia
Et signa nostre restituit Jovi
Decepta Parthenon superbita
Pandora, et vacuum desolat
Janus Quirini classat, et ordinat
Electus evagant fressu boetitine
Injicit, emarginat culpus,
Et velut revocat aries
Per quas Latines nomen et Italae
Creveri vires famaque et imperi
Perterrita malestas ad ortus
Solla ab Hispanis cabell
Osato rerum Casare non facer
Cirillis artis vir exigit osium,
Non les quas proponit enes
Et miseris hec velut orbes,
Non qui profundam Daenium bilent
Edicta rampent Jalis, non Gatas,
Non Seres infidile Poras,
Non Tanais prope domes orti,
Nostros et profusa lacibus et sacris
Inter jocis munera Liber
Cum prole matronaque nostris,
Elio deus primus apparet,
Virtus funest more patrum doceas
Lydia remixto carmine tibis
Trojanorum et Achilien et almas
Fregentes Veteris canemus.

1. (a) " Et signa nostre restituit Jovi,
Decepta Parthenon superbita
Positione."

(b) " Vacuum duellis
Janum Quirinum classit."

Write historical notes on the events mentioned, with dates.

2. Quote other passages from the *Odes* in which the Parthi are referred to under other names.

3. "Gatas," "Seres," "Tanais prope flumen orti."
Write geographical notes.

4. Quote from this Book examples of : (a) unusual words; (b) unusual constructions.

5. Account for the use of the following epithets: *Boreocynthias tibiae*, *laure Apollinaris*, *palma Eisa*, *Dicasem cygnus*, *Calabrum Perides*, *tauriformis Auctus*.

6. (a) Note peculiarities in the declension of :
lycnes, pizas, rices, jecur, fidibus, epulis.
(b) Parse, giving chief parts: callet, canimassare, proclitit, metendo.
7. Scan these lines and name the system to which each belongs:
(a) Liber vota bonos dicit ad extima.—
(b) Miratur, e' tetula praesens.—
(c) Major Nerous mox grave prosum.

II.

B. Translate:

Inquies Caesar illis litteris, quibus mihi gratulator et consilia pellicetur, quo modo exsolat Catonis in me ingratisimia iniuria! At hic idem Biblio dierum xx. Ignoscere mihi: non possum base ferre nec feram. Copie ad omnes tuas epistolatas, sed nihil necesse est: iam cain te videto. Illud tamen de Chrysippo—nam de alio illo minus sum admiratus, operaris basius; sed tamet ne illio quidem quicquam imponebam—Chrysippum vero, quem ego proper litteratas accidit quid habentem vidit, in honore habuit, discidere a parco insidente malo mitte alia, quae scilicet, iusta, mitto fortia: fugam non fera, qua nihil nulli visum est secederatis. Haec usurpat vetus illud Drusi, et ferunt, praetoria in eo, qui eadem liber non iacebat, ne latet liberes non addisset, praesertim cum adesset nemo, a quo recte vindicarentur. Id tu, ut videbas, ita accipies: ego illa absentiam. Cui tunc disertissimam epistolas non rescripsi, in qua est de periculis rei publicae: quid reculeremus? valde eram perturbatus; sed, ut nihil magno opere metuam, Parthi faciunt, qui repente libelum sensitivum reliquerunt.

1. Write short notes on such passages in the extract as you think require explanation.

2. "Illi tamen de Chrysippo."—Explain the construction of the whole sentence.

3. Translate and explain the following:

- (a) Prospexit in Camassum Parilibus venti.
(b) Tibi versus, quae rogas, yōzēs' oīc 'Aphrodis, militans.
(c) De Oppio factum est, at volai: et maxime quod DCCX aperulisti.
(d) O illud versus Ipho rig!

4. Give examples of "Epistolary" tenses. How are "to-day"—"to-morrow" expressed in Cicero's letters?

5. Cicero writes to his wife and daughter from Thessalonica on the 5th of October: give in full the address on the letter, the date, and the place.

6. A short description of Cicero's life during 63-57 B.C.

III.

C. Translate: At the same time the centurion L. Fabius and the man who had scaled the wall with him were surrounded, slain and east haling from the wall. M. Petrinus, a centurion of the same legion, tried to cut his way through the gates. Overpowered by numbers and despairing of his own life, for he had already received many wounds, he cried to the men of his company, who had followed him, "Since I cannot save you and myself at the same time, I am determined to take thought for your safety, seeing that in my eagerness to win renown, I have led you into danger. When the chance presents itself, look to yourselves." Saying this he dashed into the midst of the enemy, struck down two of them and pushed the others a little way from the gate. His men tried to relieve him, but he cried, "It is in vain that you try to save my life, for my blood and strength are failing: therefore get away while you have the chance and return to the legion." So fighting on after a while he fell and saved his men.

GREEK.

Examiner JOHN JOHNSON, M. A.

HOMER: ODYSSEY, Book X. HERODOTUS: Book I, §§ 95-216.

TIME: THREE HOURS.

A. Translate:

*Ἄλλοι δὲ εἰδούσης ἵνα πολεῖς καταπίπειαν,
Καὶ τὸν τῆς πόλεως λαοπότερον ποιεῖσθαι,
Οὐδὲ παντερούσας θάρσος πλήρης εἰδεῖσθαι
‘Ελαῖον’ δὲ ποτὲ τρυπανός τε ποιεῖσθαι
Τοῦ δὲ λαοπότερον εἰσι τρυπανοί πλέοντες
Διάφορος δὲ ἀνταρρεῖσθαι γενόμενος ἐκτρυπάει,
Καὶ δὲ τρυπανοί πάντες, τὰς δὲ πόλεις θρησκεύει,
Τῷ δὲ λαοπότερον δῆρα γέλασιν εἶται ἀνταρρεῖσθαι
Ἐπιπλέοντες δὲ ποτὲ τρυπανοί τε ποιεῖσθαι
Εἰστιν δὲ τρυπανοί πάντες τε λαοπότεροι τε,
Ετικεῖσθαι δὲ τρυπανοί, περιπολεῖσθαι παραπότεροι
Εἰσι τρυπανοί πάντες τούτους πόλεις ποιεῖσθαι,
Βῆται τρυπανοί, εἰσι δὲ ποτὲ τρυπανοί δέραι
Χαρπάζοντες δέραι τὰς πόλεις ποιεῖσθαι δέραι
Καὶ δὲ τρυπανοί πρωτεύοντες τούτους ποιεῖσθαι
Μεταπλαστεῖσθαι παραπότεροι δέραι ποιεῖσθαι

164

170

173

1. (a) ἀπαρθήσθε admits of two explanations. (b) how τὸ πρότερον. Explain construction and give the derivation of πρότερον.

2. Parse these words, giving rules for cases and writing nom. case, sing. and plur. in full:
τοῖς, ἔργασις, νέα, πάντες, τῷ, βότος, καταπίπεια, παραπότεροι, δέραι.

2. Write the Attic prose forms of :

(a) περὶ ἡμέραν περιγράψαι, θεάσαι, λέπειν. (b) τοις διαβατοῖς διαδικούσαι τὸν τόπον καὶ αὐτὸν τίσσεσθαι.

4. Parse the following, giving their Attic forms and the chief parts of verbal forms :

περιπλανᾶσθαι, περιπλανᾶσθαι, θεάσαι, διαδικούσθαι.

5. Scan vss. 164, 170, 173, and give explanations of irregularities.

6. Ιερὸν εἰς διάτοξον ἀρχὴν διαβατοῦ περιβάλλει,
τὸν μὲν ἐπιφανῆν, τὸν δὲ διαγένητον μήτε νομίσειν.

Translate, supply the ellipsis in full, explain the meaning, and what *heis* refers to.

II.

B. Translate :

(a.) Τοῦτο δῆλον τὸν Ἰάσον τοῦ Μαζευτοῦ μήτε δῶσαι τὸν φίλον, τρόπον περιπλανᾶσθαι τοὺς διάτοξους τὸν διάτοξον αὐτὸν, τοὺς γὰρ θεάσαι τοὺς σταύρους τοῦ Εὐαγγελίου, τοὺς δὲ τοὺς τοῦ Πτολεμαίου καὶ τοῦ Αὐτοκράτορος τὸν διάτοξον τοῦ Καππαδοκείου, τοὺς δὲ τοὺς τοῦ Αριανοῦ τοῦ Λαζαρίου, τοὺς δὲ τοὺς τοῦ Αριανοῦ τοῦ Σταύρου, τοὺς δὲ τοὺς τοῦ Αριανοῦ τοῦ Λαζαρίου, τοὺς δὲ τοὺς τοῦ Αριανοῦ τοῦ Λαζαρίου.

(b.) Μή δέ, τοις διαδικούσθαις, γνῷ τὸν Μαζευτοῦ βασιλέα, Τίμαρις τοῦ ἵνα αὔραν, ταῦτα πάντα τοις Κηφαλαῖοι τῷ λόγῳ, οὐδὲν γνῶντες τῷ λόγῳ, ὃ τοις Τίμαρισιοι τοις εὐρεῖσι περιβάλλει, αὐτὸν τὸν Μαζευτοῦ βασιλέα, λατούσιον τοις εὐρεῖσι. Κηφαλαῖοι τοις, τοῖς εἰς διάτοξον προσχέουσι, θεάσαι τὸν Ἀριανόν, διαδικεῖν τὸν ιαπωνὸν τὸν τοῦ Μαζευτοῦ επαρχεῖον, γεράσαι τὸ Καππαδοκεῖον τὸν τοῦ Αριανοῦ, διαδικεῖν τὸν σταύρον, τοις πάντας τὸν τοῦ Λαζαρίου τὸν διάτοξον περιβάλλειν.

1. Διανοηθεῖσα ηὕρηται τὸν τοῦ Λαζαρίου εἶναι τοις, τοις. Note irregular construction of this sentence.

2. (a.) Τοις γάρ μη Ἀριανόν. (b.) Οὐδὲν γνωστόν τῷ λόγῳ. (c.) ἀντεῖται τῷ προσώπῳ. (d.) οὐκ εἰδέσθαι τοις προσώποις. (e.) διδόσθαι. Write notes on syntax, or use of words.

3. τοις δὲ τοῦ Λαζαρίου εἶναι, Who are meant?

4. State the peculiarities of the dialect used by Herodotus. How may the resemblances in the dialects of Homer and Herodotus be explained?

5. Write the Attic forms of the following (if different) and parse them, giving nom. and gen. sing. of nouns and chief parts of verbs :

ἀρχαῖον, αρχεῖον, Αρχεῖον, περιγράψαι, θεάσαι, λέπειν, διαδικεῖν, διαδικεῖσθαι, διαδικούσθαι.

III.

1. Accentuate all the cases of any monosyllabic noun of the third declension.

2. Distinguish the meanings of : (a) οἱ παιδεῖς, οἱ ταῦτα, οἱ περιγράψαι. (b) τοῖς τοῖς διάτοξοις, τοῖς διάτοξοις, τοῖς τοῖς διάτοξοις, τοῖς τοῖς διάτοξοις.

3. Give the rules for use of moods in dependent questions.

4. Translate into Greek : The larger part of mankind do not believe that this is true.—He said that he would order them to prepare food for three days.—I should like to hear you sing.—The boys in play chose the son of the herdsman to be their king.—No one is so wise as not sometimes to err. —O ! that the wise managed the affairs of the state.—Don't you think that if he were here all would be well ?

B.—MATHEMATICS.

Examiner..... C. MACDONALD, M. A.

GEOMETRY AND TRIGONOMETRY.

TIME: THREE HOURS.

1. If two parallel diameters be drawn in two circles, the lines joining their extremities intersect in their centres of similitude.

2. Prove, by transversals, that if through any point within a triangle lines be drawn parallel to the sides, the solids contained by the alternate segments of these lines are equal.

3. If two triangles have an angle of one equal to an angle of the other, and have their areas proportional to the squares of the sides opposite these equal angles, they must be equiangular.

4. Through a given point draw a line that shall be harmonically divided by the sides, produced if necessary, of a given triangle.

5. If two tangents be drawn to a parabola, and from their point of concourse a line be drawn parallel to the axis of the parabola, the chord of contact of the tangents shall be bisected by it.

6. The tangent to an ellipse makes equal angles with the lines drawn from the foil to the point of contact.

7. $A^2 + B^2 + C^2 = 180^\circ$. Prove any two of the following :

$$(1) \sin 2A + \sin 2B + \sin 2C = 4 \sin A \sin B \sin C ;$$

$$(2) \frac{\sin A + \sin B - \sin C}{\sin A + \sin B + \sin C} = \tan \frac{A}{2} \tan \frac{B}{2} ;$$

$$(3) \frac{1 - \cos A + \cos B + \cos C}{1 + \cos A - \cos B - \cos C} = \tan \frac{A}{2} \cot \frac{C}{2} ;$$

b

8. Prove that if λ be the circular measure of a small angle—not exceeding, say, to more than 1° of arc—then $\sin(\alpha + \lambda) - \sin \alpha$ is proportional to λ , nearly. What is the use of this theorem?

9. Write the exponential expressions for $\cos x$, $\sin x$, and $\cos y$, $\sin y$; and use them to prove $\sin x \cos y - \cos x \sin y = \sin(x - y)$.

10. If r_1 , r_2 , r_3 denote the radii of the inscribed circles of a triangle, and r , R those of the inscribed and circumscribed circles; prove—

$$\frac{r_1}{r} + \frac{r_2}{r} + \frac{r_3}{r} - r = 4R.$$

MISCELLANEOUS.

TIME: THREE HOURS.

1. Find the three values of $(1)^b$.
2. Prove that if $x - y = a$, $x^b - y^b = b^a$, $x^b - y^b = c^a$; then must $a^b + 2b^a - 4ab^a = 0$.
3. If α , β , γ are the roots of the equation, $x^3 + px^2 + qx + r = 0$: Show that $\frac{1}{\alpha^2} + \frac{1}{\beta^2} + \frac{1}{\gamma^2} = \frac{q^2 - 2pq}{p^2}$.

4. In the expansion of $(a + s)^n$: there are two middle terms having the same co-efficient when n is odd. Prove this, and write the co-efficient; and find by the binomial theorem $\sqrt[n]{2}$ correct to 3 places of decimals.

5. Show that the number of combinations of $2n$ things, n together, where n of them are the same, is 2^n .

6. There are five balls in a bag that can be severally only either black or white. A person puts his hand into the bag and draws two, which turn out to be white. These he restores and draws two again, which again are white. Find the probability that there are any black balls, even one, in the bag.

7. From the series $\log(1+x) = x - \frac{1}{2}x^2 + \frac{1}{3}x^3 - \dots$, deduce a series from which the logarithms of common numbers can be determined, to the same base.

8. Find, by employing the familiar series for e^x , $\sin x$, &c., what is the true value of the fractions, $\frac{x^2 + 2 \cos x - 2}{x^2} + \frac{x_2 + \sin x - 1}{\log(1+x)}$, when, in each case, $x = 0$.

9. Resolve into partial fractions $\frac{4}{x^2 - 1^2}$.

10. Show that if n be a prime number, $(n-1)(n-2)\dots(n-r+1)$ is divisible by 1, 2, 3, ..., r ; and enunciate the theorem in the proof of which the proposition is the first step.

C.—ENGLISH AND HISTORY.

ENGLISH LITERATURE.

BURTON'S CHILDE HAROLD; MILROY'S ANTHROPOGISTS; SHAKESPEARE'S JULIET'S CLOAK; SPENSER'S FAIRY QUEEN, Bk. I.; LOVERNDALE'S HISTORY OF THE ENGLISH LANGUAGE, Pt. I.

Examiner..... W. J. ALEXANDER, PH. D.

TIME: THREE HOURS.

(Of the first four questions only three are to be answered.)

1. At what date and under what circumstances were the several cantos of Childe Harold written? Point out differences in style between the earlier and later cantos.

2. Give an abstract of Canto III.
3. Quote a passage of about 36 consecutive lines.
4. Explain fully the references in the following:—
 - (a) Blest, Caledonia! Such thy son could be!
England I joy no child he was of thine;
Thy free land thy sons should share what ease was free,
Yet they could violate each abiding shrine,
And bear these altars o'er the long-selecting brine.
 - (b) The spous'd Adriatic mourns her Lord;
And nuptial marriage now no more renew'd,
The Buoonaire lies rotting unstor'd.
 - (c) When Athens' armies fell at Syracuse
And fetter'd thousands bore the yoke of war,
Redemption rose up in the Attic Maze.
 - (d) Those who didst subdue
Thy country's foes are thou wouldest pause to feel
The wrath of thine own wrongs, or ramp the dus
Of hoarded vengeance till thine eagles flew
O'er prostrate Asia;—then who with a frown
Assihilated senates—Roman too,
With all thy vices, for thou didst lay down
With an abiding smile a more than earthly crown?
 - (e) He arose
To raise a language and his land reclaim
From the dull yoke of her barbaric foes,
Watering the tree which bears his lady's name,
With his melodious tears, he gave himself to fame.
 - (f') The one was fire and fickleness, a child
Most muttable in wishes, but in mind
A wit as various,—gay, grave, sage, or wild,—
Historian, bard, philosopher combined;
He multiplied himself among mankind,
The Proteus of their talents: But his own
Breath'd most in ridicule.
 - (g) The other, deep and slow, exhausting thoughts,
And living wisdom with each studious year,
In meditation dwelt with learning wrought,
And shaped his weapon with an edge severe,
Sapping a solemn creed with solemn sneer:
The lord of irony.

- (A) Relic of noble days, and noblest arts !
 Despised yet perfect, with thy circle spreads
 A holiness appealing to all hearts—
 To art a model : and to him who breeds
 Honors for the sake of ages, Glory sheds
 Her light through thy sole aperture : to those
 Who worship, here are altars for their beads ;
 And they who feel for genius may repose
 Their oysom hoasted forms, whose busts around them close.

5. Under what heads does Milton arrange his subject in the *Areopagitica*? How does he defend the reading of all sorts of books, good and bad?

6. Describe the character of Cassius and of Iago.

7. Compare the two plays, *Julius Caesar* and *Othello*, pointing out what you consider to be the special excellencies of each.

8. Paraphrase accurately and briefly, but so as to bring out the force of the less usual expressions :

- (a) Enjoy the heavy dew of slumber ;
 Then hast no figure nor no fantasies,
 Which busy care draws in the brains of men.

J. C. II, 1.

- (b) ——The world, 'tis furnished well with men,
 And men are flesh and blood, and apprehensive ;
 Yet, in the member, I do know but one
 That measurable holds on his rank,
 Unshaken of motion.

J. C. III, 1.

- (c) That every like is not the same, O Caesar,
 The heart of Brutus yearns to think upon.

J. C. II, 2.

- (d) One that exuds the quirks of blazoning pens,
 And in the essential vesture of credulity
 Deceit the enginer

Othello II, 1.

- (e) Which thing to do,
 If this poor trash of Venice, when I teach
 For his quick hunting, stand the putting on,
 I'll have our Michael Cassio off the hip.

Othello II, 1.

- (f) Something, sure, of state,
 Either from Venice or some unmatch'd practice
 Made demonstrable here in Cyprus to him
 Hath paddled his clear spirit,

Othello III, 4.

9. Describe the principal personages who appear in each of the successive cantos of *The Faerie Queen*, Book I, and mention the allegorical significance of each.

10. What influence was exerted by foreign tongues upon English before the Conquest? Narrate the various facts which are adduced to indicate the growing importance of English as compared with French in the 13th and 14th Centuries. What were the causes of the victory of the Midland over the other dialects?

CLASSICAL HISTORY AND GEOGRAPHY.

Examiner JOHN JOHNSON, M. A.

TIME: THREE HOURS.

1. A full account of the events that led to the punishment of the Alcmæonidae and the use made of this subsequently.
 2. A sketch of Themistocles.
 3. The peace of Nicias and what led to it.
 4. A description of the Parthenon.
 5. The liberation of Thetis B. C. 379.
 6. The causes and results of the Second Sacred War.
 7. Describe the situation of the following and note briefly any important events that have been connected with them : Argopotam, Mycale, Phœnissia, Crissa, Niæssa, Calauria.
 8. A description of Attica with a map.

ENTRANCE EXAMINATIONS.

CLASSICAL HISTORY AND GEOGRAPHY.

Economist JOHN JOHNSON, M. A.

SECOND YEAR.

TIME: THREE HOURS.

(N. B.—Give dates in all cases.)

1. Show how the powers originally possessed by the kings were gradually divided among various magistrates.
2. Describe the different occasions on which a P. Doctor Mes displayed his patriotism.
3. An account of Satyrus.
4. The various rights of a Roman citizen and their gradual extension to persons not of Roman descent.
5. The events that took place in Rome during the week after March 13th, B. C. 44.
6. Cicero's death and an estimate of his character.
7. Give a description of the Roman Forum.
8. A map of Northern Italy, showing its chief towns, lakes and rivers with both ancient and modern names.

THIRD YEAR.

The paper in this subject was the same as that set at the Senior Bursary Examination. See p. xxi.

ENGLISH LITERATURE.

SECOND YEAR.

MACAULAY'S ESSAYS ON LORD NUGENT'S MEMORIALS OF HAMPDEN; BOSWELL'S LIFE OF JOHNSON, AND WARREN HASTINGS; LAT OF HOMILIES.

Economist W. J. ALEXANDER, PH. D.

TIME: TWO HOURS.

(Only five questions are to be answered, of which No. 6 must be one.)

1. Describe after Macaulay James I., Laud, Strafford.
2. "We are not sure that there is in the whole history of the human intellect so strange a phenomenon as this book," says Macaulay in Boswell's Life of Johnson. Reproduce his development of this statement.
3. Give after Macaulay a description of Johnson's intellectual and moral peculiarities.

ENTRANCE EXAMINATIONS.

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4. Give a brief life of Warren Hastings.

5. What do you admire in Macaulay's poetry? Contrast the enjoyment it affords with that given by the *Rape of the Lock*.

6. On internal grounds determine which of the following extracts are by Macaulay, giving reasons for acceptance or rejection:

(a) Yet a few years and the shades and structures may follow their illustrious masters. The wonderful city which, modest and gigantic as it is, still continues to grow as fast as a young town of logwood by a water privilege in Michigan, may soon surpass them in size and grandeur, and which are associated with the name of Elba, with the loves of Ormond, with the counsels of Cromwell, with the death of Addison. The time is coming when—perhaps a few old men, the last survivors of our generation, will in vain seek, amidst new streets, and squares, and railway stations for the site of that dwelling which was in their youth the favorite resort of wits and beauties, of painters and poets, of scholars, philosophers, and statesmen.

(b) Society, we believe, is constantly advancing in knowledge. The tail is where the head was some generations ago. But the head and tail still keep their distance. A nose of this century is as wise as a justice of the quorum and estatutum in Shallow's time. The wooden spoon of this year would puzzle a senior wrangler in the ridge of George the Second. A boy from the National School reads and spells better than half the knights of the shire in the October Club. But there is still as wide a difference as ever between justices and nurses, senior wranglers and wooden spoons, members of parliament and children at charity schools.

(c) But let us return to Falkland,—to our martyr of sweetness and light, of lucidity of mind and largeness of temper. Let us bid him farewell, not with compassion for him and not with curses, but in confidence and pride. Slowly, very slowly, his ideal of lucidity of mind and largeness of temper conquers; but it conquers. In the end it will prevail;—we must have patience. The day will come when the nation shall be renewed by it. But, O line-trees of Tew, and quiet Oxfordshire field-banks where the first violets are even now raising their heads!—how often, ere that day arrive for Englishmen, shall your remembrance be seen!

(d) And when those who have rivalled her greatness shall have shared her fate; when civilization and knowledge shall have fixed their abiding-districts on continents; when the sceptre shall have passed away from England; when, perhaps, travellers from distant regions shall in vain labour to decipher on some Considering pedestal the name of our proudest chief; shall hear savage hymns chanted to some misshapen idol over the ruined dome of our proudest temple; and shall see a single naked Faberman wash his net in the river of ten thousand nests;—her influence and her glory will still survive,—fresh in eternal wealth, exempt from mutability and decay, immortal as the intellectual principles from which they derived their origin, and over which they exercised their control.

(e) It is of no moment to her own worth or dignity that she should be acquainted with this science or that; but it is of the highest that she should be trained in habits of accurate thought, that she should understand the meaning, the inevitabilities, and the conditions of natural law; and that at least some part of scientific attainment, as far as to the threshold of that bitter Valley of Humiliation, into which only the wisest and bravest men can descend, owning themselves forever children, gathering pebbles on a boundless shore.

THIRD YEAR.

The paper in this subject consisted of the first four questions of that set in the same subject at the Senior Bursary Examination. See p. xix.

HISTORY.

Examiner..... PRESIDENT FORREST.

FOURTH YEAR.

1. "After the peace of Coblenz in 850, Charles the Bald restored all Alodial property belonging to his subjects who had taken part against him but not his own beneficiary grants, which they were considered as having forfeited." Explain.

2. Give brief account of the origin of the Guelph and Ghibelline factions?

3. Nicolo di Rienzi conceived in 1347 the project of restoring Rome not only to good order, but even to her ancient greatness. Write short account of the man and his work.

4. Write a short account of the naval power and commerce of Pisa.

5. What was it that rendered the manumission of slaves in the agricultural districts almost impossible under feudalism.

6. To secure a proper administration of justice, "was, during several centuries one great object of political wisdom. The regulations for this purpose may be reduced to three general heads: to explain these and to point out the manner in which they operated is an important article in the history of society among the nations of Europe." What are the three general heads referred to?

7. What first led to the use of infantry in the armies of Germany, France and Spain?

8. A famous Sultan of the Turks began his reign a few months after Charles V. was placed on the Imperial throne. Give a brief account of him.

SESSIONAL EXAMINATIONS.

FACULTY OF ARTS.

GREEK.

Examiner..... JOHN JOHNSON, M. A.

FIRST YEAR.

LUCIAN: *VITA HISTORIA*.

TIME: THREE HOURS.

I.

A. Translate: Bk. I, II. 609—624, beginning "*Επειδή μόνοι, έντασις καὶ πάθος*."

1. *επειδής δέρματα δικαῖοι σύντομοι ταπειδότατοι.* Account for the cases.

2. The accusative is used in the extract to express various relations.

3. *εὐτρίψησθε.* Explain the meaning of *Ιτρίψεως*.

4. Give the meaning and derivation of the following: *εἰσέρχεσθαι, ἀπόρθεσθαι, παραγένεσθαι, οὐδέποτε, λέγεσθαι, εὐδόκεσθαι,*

5. (a.) Parse, giving chief parts in use: *διεγένεσθαι, διεστρέψθαι, επιτρέψθαι, εἰσέρχεσθαι.* (b.) Write the modal conjugation of *εἰσαγάγειν*.

B. Translate: Bk. II, II. 427—441, beginning *καὶ λαβεῖτε δὲ αὐτόν, επειδής τοις*.

1. Explain the construction of the last clause. How else might it have been written?

2. Translate and explain:

(a.) *Δέρματα δὲ γενεταῖς αἵρετα διεργάτερα, καὶ φερεταῖς τολμῶντα λεγόμενα αὐτοὶ τὰ τῆς νόσου, τοὶ φτυάρης καὶ πόλης αἵρετα τῆς επιφυλακῆς επιφυλακαῖς.*

(b.) *Ιτιστεὶς γάρ τοις αἴρεταις τὸν πόλην, καὶ αὐτοὶ τοῖς αἴρεταις τὸν πόλην αἴρεταις.*

(c.) *τίνας τοις διατάξασθαις καὶ ἐποίησας, τοῖς αἴρεταις τὰς τοις αἴρεταις τὰς τοις αἴρεταις.*

3. When and where was Lucian born? What different professions did he follow? What does he say were his motives for writing the

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1. Decline with accents in the singular : *άλει*, *άλειτ*.
in the plural : *άλειται*, *άλειτα*.
 2. What parts of verbs (a) accent the penult, (b) circumflex the last syllable?
 3. Distinguish *ώνται*, *ώρθη*; *άπει*, *άπειτ*; *άποιται*, *άποιτα*; *άποιται*, *άποιτα*; *άποιται*, *άποιτα*.
 4. The chief uses of *σει* and *μηδεί*.
 5. What constructions follow *καί*, and *καὶ τις*?
 6. Translate into Greek : *Sic haec feceris, injuste facies.*
Sic haec factas, injuste factias.
Sic haec faceres, injuste faceras.
Sic haec feces, injuste facies.

C. Translate: It was not difficult to see that Helen was madly in love with the young man.—He told me that if I bore those things in mind I should come again in time to my native land.—Lucius shrank from telling many things which he had seen for fear people should think he was lying.

SECOND YEAR

HOMER: ODYSSEY Book IX YENNOPION; HESIOD, Book II

Tracy: Tracy 31-100

- A. Translate: Od. ix., vs. 122-139.

 1. (a.) *τινὶ πάλιν τοῦτον* What difference will the reading for make?
 - (b.) *αὐτὸν* *κρατήσαντες* *πάντες* *χρόνον*. Account for mood and case.
 2. Point out the differences of Epeus from Attic forms in nouns of the 2nd decl.
 3. What are Attic prose equivalents of: *μῆτρα, αὐτός, λαρυγνός, οὐδέτερος* (Extract A)—*ἡμέρα, Ἀργείας, διδύμης, προδότης*.
 4. Parse, giving chief parts: *αἰγαῖον, πρόθυμον, ἀρέων*, (A)—*ἀθηρόποτα, τετραγύριον, δέσμων*.
 5. To what are the following epithets applied in this book, and what are their derivations?
 - εὐεργέτης, καλοεργός, ἀγαλάξης, ἴστροις φανταστές, ἀγροπόλις, καυροπάτης, δημόσιος,* 6. See vs. 130, 133, 136.
 7. What verses decide the dispute about Homer's birth-place? What date does Herodotus assign to him? Give an outline of Wolf's theory about the composition of the Homeric poems and his arguments in support of it.

- B. Translate: Hellen. II, 3, §33–37, ending at μέτι τρίτην πέμπτην.

 1. ΑΣΤΡΑ ταῦτα δύονται κ. τ. λ. Explain the construction of this sentence.
 2. (a) μὴ δέ; (b.) εἰσει τοις εἰσεῖσθαι. How are these combinations accounted for?
 3. Classify the participles in the extract.
 4. Translate the following sentences and explain the use of the relatives:
 - κρίνεται δέρι δέπ περιπλανόντο εἴρηντα ποιεῖσθαι.
 - (b.) ΑΣΤΡΑΝΘΑ οὐδέποτε δέπ ψήφις Ἀθηναῖς Δακτυλωποῖς προσθέται.
 - (c.) θεῖται δὲ γενέσθαι τοῖς εἰσεῖσθαι δέπ τοις διάτητοι ποιεῖσθαι εἰς δημοσιότητα, τῆσδε τῷ μετατοιχίῳ αποκριθεῖσθαι.
 5. Write the dependent clauses of the following sentences in the direct form:
 - αἱ γένεσθαι γένεσθαι εἰς τὸ διατελέσθαι λεγομένα, εἰ τῷ αἵτινα δημόσια λαζανά προσγενέσθαι, τοῖς δὲ γένεσθαι βασιλικῶν εἰρηγμάτων περιβαλλόντα φανέσθαι.
 - (b.) εἰσει τῷ Στόματι τοις (Ορμαῖσι) οἰνόφατο, εἰ μὴ παντεῖσθαι.
 6. Write in Olympiads the date of the sea-fight mentioned in B, and show how the year B. C. may be got from it.
 7. Show by different examples the various methods of expressing a period.

(Additional for First and Second Class.)

DEMOSTHENES: ORATIONES

Tech Team India

- A. Translate:**
'Αὐτοὶ τόλει ἀν. ὁ δοῦλος Ἀσπασία, γραπτόν ήρει Δέλτει τοπίον, τοι
πάντα γίνεται τὸ μέλλον επιστένει τῷ τούτῳ τοῦτο τὸ νοῦ αυτούτη. Λε-
γειν τοῦτο στὸν Ιητον, προσέρχεται πρότιμος Δέλτων δικτύον τοῦ βεβοητού
γενετούσαντος ὃν τὸ μέλλον εἰ τὰ γράμματα διεργάτων φαν το, τοῦτο τὸ
μέλλοντον, ἀλλὰ καὶ τὰ τῆς παρόντος τούτων ἐπιστάσθαι τούτο τον
τούτου τοῦ παραπορείαν τοῦτο διεργάτων είναι, τοτὲ τοι διάτονον γράμμα-

διεργάτης πρόγονος δροφεῖαι, τὰ μὲν θυσαὶ, δίκαιοι ἀπέχει, τὸ δὲ ἄνθελμα
(ἀπόστολος Θ. ἢν εἰσέρῃ φύσιν), τὰ δὲ φύσης ανθελλήλων μετὰ τὴν ἀποκατάστασιν
τῆς διατάξεως, τριθέτης καὶ παραπλανητής τοῦ θεοῦ προσεγγίσεως.

1. Εἶδε καὶ τὸ δικαίωμα τοῦ γενελαβήτου δικαίωσεν.
Analyze this sentence and account for the case of τοῦ γενετοῦ.

2. (a.) Λέγεται λεπτός διαθέτει, καὶ μὴ μόνον τούτου;
(b.) οὐ δέ λέγεται τούτου τούτου;
- (c.) διορθῶσις οὐδὲ διατάξις μη διατάξει τοῦτον τούτου τούτου;
Explain the syntax.

3. (a.) Τοι τούτου τοῦδε οὐτοῦ λέγει; (b.) οὐ μόνον—μόνον οὐ; (c.) ηγετεῖ τούτη τούτη; (d.) διατάξεις πρόγονος δροφεῖαι; Write these phrases in Latin.

B. Translate:

πάντα τούτα, εἰ καὶ μόνον τὰ δύτηται, μεγάλα, διηγέρεις Ἀριστοτέλης, διεργάτης
τῆς δικαιοσύνης καὶ ανθελλήλων δικαιολογεῖται τοῦτο τὸ παντούσιον. 433^a, εἶτα, τὸ
πλέον δικαιολογεῖται τὸ αντιφέρον· εἰ γάρ εἰστιν τούτων δικαιολογία τὰ
τούτων δικαιά, εἰ δὲ τὰ μεταξύ, εἴτε ἀρχαῖς αὐτοῖς τούτοις ἀπεριστάτωσαν,
διορθῶσις δὲ λεπτός Ἀριστοτέλης, διεργάτης μη τούτων ποιεῖται, διό τοι διότιον
εἰπεις βλέπεται. Σαφέται δὲ τοῦτο σύμφωνον, τούτοις τούτων ποιεῖται τούτοις
εἰπεις διεργάτης, εἰ δέ προδοτός τούτων, πάντα μεταξύ, εἰδίκη
εἰπεις αὐτοῖς εἰπεις τοῦτον ποιεῖται τούτων ποιεῖται, εἰδίκη εἰπεις τούτων τούτων
ποιεῖται, διό τοι διότιον ποιεῖται, διορθῶσις ναὶ μεταξύ τούτων τούτων τούτων
ποιεῖται, διό τοι διότιον ποιεῖται, πάντα μεταξύ τούτων τούτων τούτων.

1. τὸ κακοπότερο—διατάξεις—εργατικός: Parse, giving chief parts.

2. Give the meaning and derivation of: τελεοποίειν—τελεοποίησθαι
—διατάξεις—εργατικός—εργατικός.

3. Καποδίστριος, Σεπτεμβρίος, Δεκεμβρίος: Give the corresponding time of the year in our calendar.

4. Ασπράδες, Κλεοδες, Ηεριδες: Describe their geographical position.

Accentuate all the cases of: τούτη, διότι. What parts of verbs are paroxytous?

C. Translate into accentuated Greek: In private they were so modest that if any of you know the houses of Aristoteles, he sees that it is not a whit more imposing than his neighbour's.—And you must not be ignorant of this either, that a decent is worthless if it be not accompanied by willingness to do one's duty.—What the feelings of the majority of the Macedonians are towards Philip, we might conclude without difficulty from the following facts.

THIRD AND FOURTH YEARS.

PLATO: ΑΡΟΓΟΙΑ ΣΟΦΙΑΣ. AESCHYLUS: PROMETHEUS VINCTUS.

TITLE: THREE HOURS.

- A. Translate: Αρ. Σοφ., Κλ. 27 to διάλεκτον λειτουργίας.
 1. αἱ πλευραὶ τοῦ τούτου στον πόλιν ἀστοῦ διεργάτην. Show the connection of the words.
 2. οὐδὲ τούτου λειτουργίας διεργάτης ἀστοῦ λειτουργίας; Two different constructions are combined in this sentence. Account for the cases.
 3. Classify the subjunctives used in the extract.
 4. Write explanatory notes on the following:
 - a. οὐδὲ τούτης τοῦ πλευραῖς διεργάτης, διεργάτης τοῦ διατεταγμένου,
 - b. 'Αστούλεργος τοῦ πλευραῖς, διεργάτης,
 - c. οὐδὲ τούτης τοῦ πλευραῖς τοῦ πλευραῖς, διεργάτης τοῦ πλευραῖς.
 5. Explain the use of different moods with τούτη.
 6. Turn the following sentence into ορθία οἰλίασι after τούτη and διεργάτη: οὐ δέ μαλακή τοῦν εἰ διέργαται, οὐ δέσις γέρεται, λαζανόλειρα.
 7. Write in Greek: In his absence he was condemned.—They hindered me from coming. I perceive that nobody knows.—What did you mean by going away?—He devised the following plan of escape.

B. Translate: Prom. Vinct. v. 447—460.

 1. Ιν. να. 451 Hermann writes μόνης for μόνη Θ. Why is the change made? Translate the passage accordingly.
 2. Κατέλαβε διατίθεται εἴπει Θ. ξερος κ. τ. δ. Translate and explain the passage with a different punctuation and reading.
 3. Write grammatical or explanatory notes on the following:
 - a. οἱ προπονοῦσσες τῷ Ἀριστοτελεῖον εἴρησι.
 - b. τούτης οἱ Μακεδονοὶ Στράτευσις μηδὲ μέλοι,
 - c. τούτης τοῦ διεργάτης, οἱ προπονοῦσσες δρεῖσθαι.
 4. What geographical difficulties are found in the description of Leo's wanderings?
 5. Parse, giving chief parts of verbs and nom. and gen. of nouns λαζανόλειρα, γέρα, εργατικός, (in E); also, διατάξις, εργατικός, ελαστικός.
 6. Point out and account for the differences in the component parts of an Athenian play.
 7. A brief sketch of Aeschylus.
 8. Account for the name of the metre of the extract. Scan the last three lines, marking the iambics only.

bic locus est, partes ubi se via fiodit in ambas:
decorsa quas Ditis magis sub mensa tendit,
hac tamen Elysium nolit: at lava malorum
excrot poenas, et ad impi Tartara mittit.
Delphobus contra: 'ne saevi, magna execrabis;
descendam, explebo numerum, reddaque tantula.'

1. Parse: adire, vice, quadrigis, cursu, fendo, hoc, Elysium.
 2. Write lines 537-8 as a conditional sentence in prose.
 3. Write a note on asides, on *se acri*, and on any part of the extract the meaning of which may not have been made sufficiently clear by your translation.
 4. Explain:
 - (a) Euboeia Cumaram erit.
 - (b) Amphryea vates.
 - (c) Marpessa coates.
 - (d) Maestansque Ecphylos.
 - (e) Soden, aeternaque sedebit, Infelix Thesaea.
 5. Give the derivation of the names: Coctyn, Acheron, Styx, Phlegon.
 6. Scan the five lines beginning at 531.
 7. Macta me geravit, Calabri rapere, tenet ame
Portunopae; cocini passus, cura, dnoe.
- Translate and explain.

II.

1. Decline: vice, aere, requies; and mention any peculiarity in the declension of: jour, osculum, oscilles, facie, jugera, fauna.
2. Give the chief parts of: ordior, orior, atrilit, gaudet, verrunt, seputit, ferit, natus.
3. What is meant by the Predicative Dative? What compound verbs are contrasted with a *Dative*?
4. The different ways of expressing a *Predilection* in Latin.
5. "Having heard this he set out at once," may be rendered into Latin in several ways.
6. Distinguish between the uses of *sem—sem*, *utrum—az*, *aut—aut*.

C. Translate into Latin: This man sold his country for gold, he made and revolved laws for a price. Occasionally they made a mouth a day or two longer. Let us love our country, obey the senate, and consult the interest of the gods. We will set out for home on the 27th of April. Expressing gratitude is one thing, feeling it another, showing it another still. If he were to say he did not believe I was telling the truth he would be speaking more clearly than kindly. April 10th, 1888.

(Additional for First or Second Class.)

CHECKED: PRO LEGE MANILA.

TIME: THREE HOURS.

A. Translate:

Atque ut inde oratio mea perficiatur, unde haec omnis causa ducitur, bellum grave et periculosis vestris vestigialibus ac sociis a duabus potentissimis regibus invictar, Mithridate et Tigrane, quorum alter relictus, alter lassissimus condonem sibi ad occupandam Asiam ostendens, eas arbitratur. Equilibus Romanis, honestissimis viris, adfimerunt ex Asia codile illente, quorum magnae res aguntur in vestris vestigialibus exercitibus occupatae; qui sed ut pro necessitudine, quae sibi est cum illo ordine, canum vel publicis perlongaque rerum sursum detulerent: Bithyniae, quae nona nostra provincia est, vicos exercitus case complices; regnum Thraceanum, quod Thracum et vestris vestigialibus, totum esse in nostra potestate; i.e. Lucullum magnis rebus gestis ab eo bello discedere; hinc qui successerit non soli eis pacem ad tantum bellum administrandum; manus ab omniis sociis et civibus vel id bellum impetrare deposita expell, evadere hunc unum ab hostibus metal, praeterea nullum.

1. "Vestigialibus" seems to have different meanings in this passage: parse accordingly.

2. "Ad occupandam Asiam" writes a geographical and historical note on *Asiam*.

3. "Exequibus Romanis . . . quorum magnae res aguntur in vestris vestigialibus exercitibus occupatae." Explain this statement.

4. "Bithyniae," "regnum Arbariorum" show by a rough map the geographical position of these with respect to neighbouring countries.

B. I. Etiam primus illud parvi referit, nos publicolis annulis vestigialibus postea victoria recuperare: Translate this and point out the difficulty contained in it. Parse *parvi* and *relicta*.

2. Quem secundum defendantis? Cui praesidio clamores vestris facti? Translate and account for the cases in the last sentence.

3. Atque haec quo colorib[us] gesta sint, quenque visetis, tamen si me in diecendo praeterenda non sunt. Translate and point out an unusual construction.

4. Quoniam calm imperatores posseamus ulli numero patere ejus in exercitu centurias reverent angusti venturint: Translate this. Account for mood of *reverent*. Conjugate it and give its derivation.

5. Et illi temporibus non potebat magistratus populi Romani in hunc locum excordore, cum eis nobis maiores nostri exuvia nauticis et classium spolia certamen reliquerint. Translate and write notes on its *temporibus*, *excordore* and *exuvia nauticis*. Decline *exuvia*.

6. Quid vero tam inaudita esse quoniam equitem Romane triumplor? How else might the latter clause have been expressed? Examine the conditions usually necessary for a triumph.

C. 1. What classes of nouns form the acc. in —in and abl. in —?

2. What nouns of the 4th decl. are feminine?

3. Illustrate by examples the different contractions used with each of the following: *dignus*, *cuncte*, *impere*, *duobus*.

4. What disyllabic perfects have a short penult?
5. What words have final *s* long?
6. Arrange the following sentences as hexameters:
 - (a) Tunc vere in omnes curas animo didicatur;
 - (b) Et saevus Oviens equis anhelis afficit;
 - (c) Quid utas emelando rem nobis restituit.

SECOND YEAR.

HORACE: Odes, Book I. LIVY: Book I.

TIME: THREE HOURS.

A. Translate:

Sic te diva potens Cypr,
 sic fratres Helcanae, lacida sidera,
 veneficiumque regat pater
 obstrictis allis praeter Iapya,
 novis, quae illi credunt
 deos Virgilium, fulgur Atticis
 reditus insolentem, prece,
 et servos animis dimidium moe.
 illi volum et nec triplo
 circa poena orat, qui fragili truci
 comitunt pelago rates
 prius nec Eumuli precipitem Africoum
 derulantur Aquileibus
 nec tristes Hydas nec rabiem Nodi,
 quo non arbitr' Hadriae
 major, tollens seu posse volt freta,
 quem Mortis transit gradum,
 qui sticta ocellis mentina mataria,
 qui videt mare tingundum et
 infans saepe Acrocerasia?
 nequissima dom' abscondit
 prudens Oceanu' insociabilis
 terra, et tamen impiae
 non tangendo rales transducent vada,
 aufax omnia perpeti
 gena humana rait per volitum nefia,
 aufax Iapeti gena
 Igne fronde male gentibus intulit.

1. (a.) Explain the connection of the clauses in the first sentence, and the meaning of *Sic*. (b.) Who are described in the first three lines?

2. Note unusual (a) meanings of words and (b) constructions in the extract, and classify the latter.

3. "Finibus Attilis": Is this phrase to be taken literally? Write a note on the occasion referred to. Virgil is mentioned elsewhere in the First Book.

4. Write notes explaining the epithets in these phrases:

- (a.) Nec saevum Polopis dominum.
- (b.) Aut Explosio, bimaris Corinthi.
- (c.) Hastas et calami spicula Cossi.
- (d.) Intonsum, posci, dicite Cythurn.

5. Give the derivation of: Hyades, viperians, Thalassarche, letum, locina, Diaphanter; (b) Decline (marking gender); Iapys, pelago, sea, Acrocerasia; (c) Parse and conjugate: deterget, rescessu, recinet, morsu, sevira, quæstus.

6. Scan and name the lines quoted in question 4.
7. A short sketch of Horace.

B. Translate:

Ita Namneti Albano re permis Romam Remorum capido certit
 in lls locis, ubi expediti ubique educati erant, ubi coecundas. Et
 superaret multitudine Albaniom Latianorumque; ad id pastores quoque
 accesserant, qui omnes facile spes facerent parvam ALbam, parvum
 Lavinius preso ex urbe, quae conseretur, fore. Intercent deinde his
 cogitationibus avitum malum, regni ergo, si quis inde fedum certa-
 men coecrit a satis muti principi. Quoniam genit' essent, nec
 sensu veracordia dictiuen facere posset, ut dicit, quoniam tutelas ex
 loca essent, auguris legent, qui nomen novis urbi daret, qui con-
 ditam imperio regeret, Palatium Romulus, Remus Aventinum ad
 insanginatus tempa explavit.

1. Illustrate different uses of the subjunctive mood from this extract.

2. (a.) "ad id": What is the antecedent? (b.) "quorum tute-
 las ex loca essent": account for the oblique case.

3. a. pergit ad proximam apuduncam, si forte eo vestigia ferrent.
 Explain the connection between these two clauses.

b. Haec tempus est origo, quod primus omnium Romae sacra-
 tum est. Relate the circumstances.

c. partes eas tribus appellavit, ut ego arbitr' a———. Complete
 the sentence. What is referred to?

d. Amerum nobilis una imagine Numae esse. Explain this.

e. Id ubi dixit, bascum emitit. Express this in the form of
 "indefinite frequency in the past" as used (a) by Livy, (b) by Cicero.

4. Turn the following into English obliquely: Tunc set, inquit, Servi,
 si eis se, regnum, non coru' qui alienis manibus possident facinus
 fecero. Erige to deinceps duces sequere. Name to illa cœlestis existet
 flamma, non expiriare vere... Qui sis, non unde natu' sis, regata:
 si tuis re subtili consulis torpuit, at tua mea sequere.

5. What period was covered by Livy's History? How much of it
 is extant? What references does he make in this book to previous
 writers? What may have been the origin of the so-called historical
 details in the First Book?

C. Translate into Latin: When Tarquin wished to double the centurias of Knights, Attis Navias, a famous augur at that time, opposed the plan, declaring that no change of that kind could be made without the consent of the gods. Tarquin, who appears to have thought little of the knowledge of the augurs, commanded him to inform him whether what he had in his mind at that time could be done. Attis, after taking the auguries, answered that it could. Then Tarquin giving him a whetstone and a raven, ordered him to cut the former with the latter, which the augur did to the amazement of all. Then the king gave up his intention and determined henceforth to do nothing without first consulting the gods by augury.

(Additional for First and Second Class.)

HORACE: ODES, BOOKS II, III.

TIME: THREE HOURS.

A. Translate:

Nellus argenteo color est avarici
Abilis terris, inimicis lassus
Crux Salusti, nisi temporo
Splendens nra.
Vixit extreto Proculine aevu
Notus in fratres animi paterni;
Illi ager penas metuentes solvi
Fama impudet.

Latina regnos avidum demando
Spiritum, quoniam si Libyam remota
Gaudios jangas et ulterius Poenias
Servial uni.

Crescit indigenus sili dirus hydropis,
Nec stilus pellit nisi cassu mortali
Purpur vena et agmina alto
Corporis rugina.

Rodditum Cyri solo Phraseta
Dianthus melli numero beatorum
Exultat Virtus, poenitentia faldis
Deducta est.

Vocibus, regnum et diuersa tetum
Deferunt uni propriansque lacrum
Quis quis ingentes oculo luctato
Spectat aevum.

1. The meaning of the first stanza is obscurely expressed. Explain it.
 2. "Notus in fratres animi paterni": Explain the construction.
 3. quoniam si Libyam remota
Gaudios jangas et ulterius Poenias
Servial uni.
- Write an explanatory and geogesphical note.
4. "Rodditum Cyri solo Phraseta." Explain the meaning.
 5. Note any unusual form or syntax in this ode.

B. Translate:

Quasdam distet ab Isacho
Codrus pro patria nos tinxidus mori
Narras, et genas Asac.
Et pugnata auro bella sub Ilio:
Quo Chione pretio cadens
Moremque, quis agnan temperet ignibus,
Qui praeberet domum et quata
Poligna carissi frigeribus, tace.
Da hunc proprie nome,
Da noctis medice, da, paer, angulis
Muremque: tribus aut inveni
Miscenter cystidis pecula commoda.
Qui Musa amat impars
Tenuis ter cyathos albitalia petet
Vates; tres prohibet supra
Hilarum metentes tangere Gratia
Nudis juncta scorbuta.

Immaire juvat: cur Beresynaties
Cessat famas thrae?
Cur pueri tuncis fatalia cum lyra?
Parentes ago dertens
Odi: sparge rosas; audiat invides
Domestica strigilium Lycas
Et vicina send son labilis Lyco.

1. "Quantum distet ab Isacho
Codrus pro patria nos tinxidus mori
Narras, et genas Asac." What connection is there between these lines and the theme of the ode? Write notes on "Isacho," "Codrus," "genas Asac."
2. Write "quis aquan temperet ignibus" in the direct form.
3. "tribus aut inveni
Miscenter cystidis pecula commoda." Different explanations of these lines are given. Tarse miscenter.
4. Explains any unusual constructions in this ode.
5. Give the usual forms of the following Graecismata:
 - a. Persephi Acherronta Hercules labor.
 - b. Injicta monstra Terra delit suis.
 - c. Tuque, testudo, resonare septem callida nervis.
 - d. Cum famulis operam solentis.
 - e. (Texta) digna meveri bone die.
6. What contemporary events are mentioned in these books?
7. Quote some short moral sayings from the odes.
8. Arrange the following phrases as Lyric verses, and name the system to which each belongs:
 - a. Defende deus Danias Camoenas.
 - b. Honestum utili praeftit pax.
 - c. Et miseris urbes inveniunt.

THIRD AND FOURTH YEARS.

TACITUS: AGRICOLA. PLAUTUS: CAPTIVI. JUVENAL: SATIRAE, III., X., XII.

TIME: THREE HOURS.

A. Translate:

Tu vero felix, Agricola, non vitas tantum claritate sed etiam
opportunitate mortis, ut perlibens qui latronem novinalem ar-
menias iun, constans et libens fatum exceptivit, tamquam pro virili
parte innocentium principi duxeres, sed mihi filique eius praepter
ascensionem paratus eripit angel mortificans, quod adfuisse valeret, if
fovere deficationis, astari volu complexaque non contigit, excepisse
missus ante mandata vocesque, quae penitus salmo figura, noster
hic dolor, nostris volvam: nobis tan longae absentiæ condicione nata
quadrifernum annus est, omnia sine dubio, optime pareamus, addicatis
anamitissima mox superflue horci tecu: pascieribus tamen locis
campioribus es, et novitatem in luce desideraveris aliqd oculi tel.

1. Quam (sc. Britanniam) unius pro illi fortuna veteri patientias resistens, tenetibus armis puerisque quae conscientia defectiois ex propria ex legato rinxerat agitatis, ne quaqueque egrigia cetera arroganter in dictis, et, ut siue quaeque injurias alter, durum considerat. Translate this passage. What difference will the readings si for 'ne' and equeque for 'quaeque' make?

2. Note peculiarities of syntax in the following:

a. Peritas obsequi creditissimus nulli honesta miseris.

b. Eorum initio erecta provincia, et quibus bellum velentibus erat, probare exemplum.

c. Quos quod tandem inveneris, non restiterunt, sed deperirent aut.

3. How may the date of the *Ariovis* be fixed?

B. Translate:

TYND. — Vidi ego malum ampe plena, quae Acheronti furent.

Crucinata : verum enivero nulla adspicere est Acheron,
Atque ubi ego fui in Iapicidina. Illic ibi denarii est
locus,

Ubi labeo hastitudo omni' est exigunda ex corpore,
Nam, ubi illi adversi : quad patricios positis aut inserviisse,
Aut invicti, aut conseruatis datur, quasque resident : 1003
Itidem hoc mihi adventuoni upupa, qui me detectum, data
est...

Sci' horum eorum ante ostium, et herus alter eorum ex Aida
Raditiss :

Salve, exspectate gaude mi !

TYND. — Hunc : quid ! " grata mi ?"

Atist, scio car' tu patrem annimiles esse, et me filium ;
Quia milii, isti tu parents, hucus das tunclo copiae.

PHIL. — Salve, Tyndare.

TYND. — Et tu quaeque causa base necrumsum exige.

PHIL. — At sume ille in divitias facie venias.

1. Note any unusual forms or constructions in this passage.

2. Translate the following sentences and state in what connection they are used:

a. Vel extra portam Trigemianam ad secum illect.

b. Profundis vendo tu quidem, haud fundam nulli.

c. Nam ego later secum sacroste sto.

d. Nucleum aspidi, retinet pignori palamina.

3. Give the meaning and derivation of:—derundinatus, 633, antenae, libella, serpiscui, osculatus, varum, funeris.

4. Scan vs. 1003, 1004, 1005, which are written in trochaic metre.

C. Translate:

Quis temulum guttur noster in Alpibus? aut quis

In Meros crasso majorum infinita miscillan?

Cervus quis stupat Germani lumbus, faciem

Cesariem et madice tricentem cornua croci?

Nescio quod hoc illis natura est osculans una.

Ad salibus Thracum volucres sublungae escorum

Pygmae parvis currit bellator in arcuis;
Mox longi hasti capnantes per aera curvis
Ungubis a nava fertur gris. Si videlicet hoc
Centibus in nostris, riu quatuor: sed illis,
Quamquam eadem assidus spectaculo prouilla, ridet
Nemo, ubi tota cohors pede non est affice uno.

1. Write notes on "Merces" and "Pygmaeus bellator." In what connection is the passage used?

2. Translate and explain the following:

a. Dom superest Lachesi quod torquet.

Transl.

Gymnasi atque nulli facilius majoris abdito.

c. Quisquis adhuc uno partem collit aene Minervam,

d. Ille deinde poemata nato.

Quas te compungere, divisa Philippica, famae,

Volvitis a prima quo proxima.

3. What is known of Jevons?

D. Translate into Latin: Leonidas was one of the first that fell, and around his body the battle raged fiercer than ever. The Persians made the greatest efforts to gain possession of it; but four times they were driven back by the Greeks with great slaughter. At length, thinned in numbers and exhausted by fatigue and wounds, this noble band retired within the pass and sought themselves on a hillock behind the wall. Meanwhile the detachment which had been sent across the mountains began to enter the pass from the south. The Thessalians seized the opportunity of begging quarter, proclaiming that they had been forced to fight against their will. Their lives were spared, and the detachment marched on through the pass. The surviving heroes were now surrounded on every side, overwhelmed with a shower of missiles and killed to a man.—SMITH'S *History of Greece*.

Additional for First Class.)

TIME: TWO HOURS.

Translate these "unseen" passages:

a. Vebis III (sc. Mercuri) expido erit enicula quadrigaram insidere, non minus fodina stolidis Indorum in modum canes, curru certare et equi regnum et antiquis diuibus fortitudinem memorabam, hodie vatum luctibus celebre et decorem honesti datum. Enivero cantus Apollini sacros, fuligine ornatu astare seu modo Gravida la mithra, sed Ressus apud tempula, nomen precepimus et praeservamus. Nec iam nisi poterit, cum Seioce et Barre viam, ne utique perinceperit, alterum concideret. Claustrumque valle Vaticana spallium in quo equos regunt, haud primum spectaculo. Mox ulio vocis populus Romanus, hastilisque extolleris, ut est valgas capillis volupsum et, si eodem princeps trahit, latroni. Ceterum evulsum pectora non satietatem, ut rebatur, sed insatiantem atritum: namque dedecet moliri, et phares festis, nobilium familiarem posteris, egasque venales, in secundis debiliti: quod fato perfundit no nesciunt tradit, majoribus eorum tribendum patet. Nam et ejus flagitium est, qui pecuniae ob delicta potius dedit quam ne defraudent. Nescio quoque equites Romanos speris arcanis prouidentibus imbeatis donis ingentibus, nisi quod merces ab eo quod pabere potest vi necessitatis aferat.

8. Quicquid agunt homines, votum, timor, ira, voluptas,
Gaudia, discursus, nostri est farrago libelli.
Et quando sacerdoti vitoram copia? quando
Major avaricia patuit simus? aea quando
Hoc animos? Neque enim locella constantibus illarum
Ad causam tabula, posita sed luctuosa arcu
Prolixa quanta illuc dispensatorem videtis
Armiger? Simplicem furor mortis centrum
Perdere et hercules tunicae non redire arro?
Quis totidem erravit villes, quis ferula septem
Secreto erravit avas? Nunc spectata primo
Limine pava solet, turba rapienda tegula.
Illi tamen faciem primi impedit et trepidat, ne
Suppositus venias ad false noscere poscas.
Agitius accipies; jubet a praeceps vocari
Ipsorum Trojigenas; nam vexans limen et ipsi
Nobiscum. "Da pratorum, da deinde tribuum.
Sed libertum prius est." "Prior," inquit, "ego adsum:
Car timare, dubitare locum defendere, quavis
Natus ad Ephesum, nullus quid in auro fessatus
Arguerit, licet ipsa negent? sed quaque tuberosa
Quadrungentis parant. Quid confort purpura maior
Opulans, si Laurenti castollis in agro
Conducitis Corvinas avas? ego possideo plus
Pallantis et Lictoris."

FRENCH.

Examiner..... PROFESSOR J. LIECHTI, M. A.

FIRST FRENCH CLASS.

TIME: THREE HOURS.

I.

A. Translate:—Désiré : Guillemins le Chevalier.—Son extrême jeunesse l'avait empêché jusqu'alors de prendre un parti actif au gouvernement ; mais la mort de la grande et des dévouées civils n'avait pas été perdue pour lui. Il s'ingénierait de voir son armée ainsi combattre et surprise par d'insolents vassaux, et il se réjouirait dans sa tête de s'en venger un jour avec éclat. Sa passion pour le commandement s'irritait par les souffrances qu'il subirait : il était énergique, il devint dur; il venait être chef. Il fut despotique; sa cruauté naturelle se changea en diabolisation, "et considérant certains les Normands avaient, dans les transports de leur furor, dévasté tout le pays, il prisa dans son cœur encor enfant tout note d'indiscipline."

Impatient de mettre à profit les leçons qu'il avait reçues de tant d'alternatives de succès et de revers, le jeune chef voulut à quelle aisance révrir les armes de chevalier, et se mit aux formes d'escrime, qui donnaient "le droit de servir et de commander dans tous les guerres." L'intérêt de la chevalerie n'avait pas lieu en Normandie de la même façon que dans les autres parties de la France ; les Normands avaient adopté pour cette chrétienne des formes plus militaires et moins religieuses.

SESSIONAL EXAMINATIONS.

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1. De s'en revenger un jour. Parse the words in italics. Write, in full, the object represented by *en*, and show by short exs. that *en* may be used as preposition and as partl. art. Translate: "We revenge ourselves on him. Revenge thyself (affirm. and neg.). They (f.) have revenged themselves (affirm., neg. and interrog.). Do I revenge myself?"

2. *Il meust être obéi.* Write this sent. in the *order* voice. Translate the following sentences, and fully explain why they differ in their construction from the English: "We are taught Ancient and Modern languages. This thing is not thought of. His new book is well spoken of." Mention the few exceptions of this class of verbs.

3. *Le jeune due se soumit aux formalités.* Parse *se soumit*, and give its principal parts. Give a pronomial form to the *indirect* object. Write the *fee*, of *le jeune due*, and put the whole sent. in the interrog. form, commenting on any peculiarity in its construction.

B. Translate:—Molière : *Le Bourgeois Gentilhomme*.—*Le Malin de Mme. de Montreuil*.—Il n'y a rien comme une châtelaine dans l'art que les apprécier. Il faut que vous dites une chose, et on ne fait pas mieux. Des langages brefs sont recommandables pour un honnête homme ; il y faut moins du solide ; et la meilleure façon de louer, c'est de louer avec les mains. C'est un honnête, à la vérité, dont les lumières sont petites, qui parle à tort et à travers de toutes choses, et s'expliquant qu'il contrarie ; mais sans arrière redresse les jugemens de son esprit ; il a du discernement dans sa bourse ; ses langages sont nommades ; et ce bourgeois ignoré nous vaut mieux, comme vous voyez, que le grand seigneur élancé qui nous a introduits ici. *Le Malin à Damer*.—Il y a quelque chose de vrai dans ce que vous dites ; mais je trouve que vous appuyez un peu trop sur l'argent et l'infirmité est quelque chose de si bas, qu'il ne faut jamais qu'un honnête homme mourre pour lui de l'attachement. *Le M. de M.*.—Vous recevez fort bien pourtant l'argent que notre honnête veuve donne. *Le M. à D.*.—Assurément ; mais je n'en fais pas tout mon honneur ; et je voudrais qu'avec son bien il eût encore quelque bon goût des choses. *Le M. à M.*.—Je le voudrais aussi ; et c'est à quel nous travoissons tous deux autant que nous pouvons.

1. Qui châtelaine domptage que . . . What word in Modern French would you substitute for *domptage*, and what use would you make of the latter word? write an ex. In what manner do you effect comparison in French. Illustrate fully. An exceptional form is used in sent. such as: There are more than three million inhabitants in London. Explain.

2. *Il y faut sortir de solide.* A verb, depending on an imperf. verb, is usually in the subject. Make the application in the clause italicized. Write the same clause, substituting a personal verb for *si* first. Write down the Imperf. Subject of *s'asseoir*.

3. *Des langages brefs parlez.* Parse *brefs*, and account for its inflection. Establish the difference between *Toute cette*; *toute la ville*; *toute la ville, grande*. Give me the whole of it. I have seen these (m.) all. All I have is yours. All that [which] is good.

II.

1. Which is the logical order of words in a French sentence? Illustrate with an ex. Mention at least two cases, in which the usual order is departed from.

2. Distinguish between: *un grand honneur* and *un honneur grand*; *un pauvre poëte* and *un poëte pauvre*. Write an illustration of the agreement of adj. with two or more nouns of different gender.

3. D'insolents ennuier. Mention the adjs. that are used without the prepos. *de* before a plural noun; and write the form of : *âme*, *greve*, *trempoir*, *pêcheur*, *russe*, *peutill*, *protecteur*, *âbriou*, *les fous*, *doux*. Turn into French : The better a man is, the more he is esteemed.

4. Illustrate by short exs. the difference between : *qui est-ce que?* and *qu'est-ce qui?* What may be rendered by *que* and by *qui*; write an ex. with each. Translate : I know what you are thinking of. I do not hear what he is speaking of. What a sad news. What sensations !

5. Is how many ways in French can you render *whose*, denoting possession. Give instances. Explain the difference in the position of the noun after *avoir* in the sente : The author, whose work we are reading (*livres*), and The author, whose word is in the library.

6. Write short exs. in illustration of the various ways in which the English passive is expressed in French.

7. *Je me sens ravi de le dire. Une lettre à écrire. Pas encore. Elle n'a que cinq ans. Ne se faites pas de peur qu'on ne nous voie.* Translate, and note peculiarities in the construction of these clauses.

8. Equivalent forms in French of "it is" are : *il fait*; *il y a*. Exemplify their use.

9. Illustrate use of *aller*, *venir* and *devoir*. Your friend has just arrived from abroad. Are you going to write to him? I ought to have written to him a week ago. He is to come to-night. You ought to do it yourself.

10. Parse, and give principal parts of : *perdu*, *desiré*, *obéi*, *repas* (A); *chafouillé*, *mettait*, *veut*, cit. (B).

Translate into French —(a). Have you answered his questions? Yes. I have answered them. Do you remember the affair? I remember it. How old is he? He is 21 years old. What subjects do you wish us to study? I wish (and) he were here. You speak English, do you not? Always do your best. However rich he may be, whatever may be his ambition, he will not succeed. French and English are spoken almost everywhere. The Stat of March, 1888 (*lettres*).

(b). William received at the same time, in his father's palace, a more careful and literate education than that of most princes of his age: at the age of seven he already could read and explain Caesar's Commentaries; he was deeply interested in his studies, and during his whole life and in the midst of affairs very foreign to literature, he preserved so much taste for the culture of the mind, that he was wont to say, "an ignorant king was but a crowned ass."

SECOND FRENCH CLASS.

TIME: THREE HOURS.

I.

A. Traduisez.—Racine : "Athalie."

*Athalie.—Sa voix a rauiné mes esprits abattus ;
Mais lorsque, revenant de mon trouble funeste,
J'admirais sa douceur, son air noble et modeste,
J'ai senti tout à coup un bâticide acharné
Qui le traitra en mon sein a plongé tout entier.
De tant d'objets divers le bizarre assemblage
Peut être du basard vous paraît un ouvrage ;
Moi-même quelque temps, hanté de ma peur,
Je l'ai pris pour l'effet d'une sombre vapeur.*

Mais de ce souvenir mon âme posséda
A deux fois en dormant retrouvé la même île ;
Doux fois mes tristes yeux se sont va retrouver
Ce même enfant toujours tout prêt à me percer
Lasse enfin des horreurs dont j'étais pourvue,
J'allais priser Baal de veiller sur ma vie,
Et chercher du repos au pied des ses arbres ;
Que ne peut la frayeur sur l'esprit des mortels !
Dans le temple des Juifs un instant m'a possédée,
Et d'appeler leur Dieu j'ai couru la pensée ;
J'ai cru que des présents emboîterai son courroux,
Qui ce Dieu, quel qu'il soit, en deviendrait plus dur.

1. *Se sent et retrouver.* Expliquez la règle sur l'accord du participe subtil d'un infinitif, et traduisez : Cette classe a du talent; Je l'ai vu plusieurs. Ces fleurs, je les ai faites cueillir. You have heard them (f.) sing, and have seen them applauded. They (f.) have been allowed (inseur) to go out. I have allowed them to be learned. Nommez la seule exception à cette règle, et citez un exemple.

2. Nommez les part. passés qui restent invariables préférant le substantif, variables lorsqu'ils le suivent. *Il se sent ravi et se sent parado.* Expliquez la faute qui se trouve dans cette phrase.

3. Quel qu'il soit. Les mots *whatever* et *however* as traduisent tout par quel que, tantôt par quelques . . . que? Citez des exemples à l'appui. *Ecrives en français : Whoever you may be and whatever you may do, is of little importance to me.*

B. Traduisez.—Molière : *L'Amour . . . Elié. — Ah ! Valvès, ne bouges pas d'ici, je vous pris, et songez seulement à vous bien mettre dans l'esprit de mon père. Valvès.—Vous voyez comme je m'y prends, et les adroites complaisances qu'il m'a fallu mettre en usage pour m'introduire à son service; sous quel masque de sympathie et de rapproches de sentiments que je déguise pour lui plaire, et quel personnage je joue tous les jours avec lui, afin d'acquérir sa tendresse. J'y fais des progrès admirables, et j'éprouve que, pour gagner les hommes, il n'est point de meilleures voies que de se parer, à leurs yeux, de leurs inclinations, que de donner dans leurs maximes, encouvrir leurs défauts, et apparaître ce qu'ils font . . . Valvès.—Vous avez raison : voilà qui démonte tout; cela s'entend. Il y a des gens qui pourraient vous dire qu'en de telles occasions, l'indication d'une fille est une chose, sans doute, où l'on doit avoir de l'égards; et que cette grande inégalité d'âge, d'honneur et de sentiments, rend un mariage sujet à des accidents très-fâcheux. Harpegnay.—Sans doute! Valvès.—Ah ! il n'y a pas de réplique à cela; on le sait bien. Qui d'autre peut aller à la contre? Ce n'est pas qu'il n'y ait quantité de personnes qui aimeraient mieux mesurer la satisfaction de leurs filles, que l'argent qu'elles pourraient donner; qui ne veulent point sacrifier à l'intérêt, et obéiraient plus quis toutes autres choses, à mettre dans un mariage cette densse confortabilité qui, sans cause, y maintient l'honneur, la tranquillité et la joie; et que . . .*

1. *Ne bouges d'ici.* Commentez sur la construction de cette phrase. Expliquez l'ellipse de la négation pas dans les phrases suivantes. Why don't you do it? Take care you are not deceived. The child neither talks nor walks. It is over two months since he met with this accident.

2. *Coussin je m'y prends.* Il n'est point de meilleure voie. Donner des leçons nécessaires. Ce n'est pas qu'il n'y ait quantité de personnes. Aimer-aimer renvoie. Qui peut aller à moins? Expliquez d'une autre manière le sens de chacune de ces phrases idiomatiques.

3. *Tente contre chose.* Expliquez l'accord du mot *tent*, adjctif et adverbe, dans les phrases suivantes : All Germany was quite alarmed as well as quite surprised at the news. A few days ago all the trees were covered with snow (grande). The people were all eyes and ears. I am not quite sure of it. However (*tent*) handsome those young ladies are, they have but few admirers.

II.

1. Montrez par quelques exs. que, dans certains cas, il y a inversion du sujet. Quand le complément *indirect* doit-il précéder le complément *direct*? Prenez pour ex. : We prefer riches, which are, alas ! the source of our misfortunes, to a happy mediocrité.

2. Pourquoi, les phrases suivantes sont-elles incorrectes? — Tôt ou tard on regrette le temps perdu, et de n'avoir pas mis à profit tous les instants de sa jeunesse. La charité chrétienne nous commande d'aimer et de prêter assistance à notre prochain. C'est à vous, o mon bienfaiteur! à qui je dois tout mon bonheur. Il est affable et bienveillant pour tous.

3. Traduisez : Le silence est l'ennemi du bien. Il n'en est rien. Il faut s'exprimer haut et clair. C'en est fait de lui. Je n'y serai pour personne. Il y va de leur de... There are certain reasons about town. They changed their mind. It is their turn to speak. Have you heard from him? My head aches.

4. Faites l'analyse et nommez les temps primitifs des verbes : — *parut*, *peut*, *deviendrait* (A) ; *besoyn*, *peut*, *fut*, *sut*, *ait*.

5. Racontez, en prose française, le conte d'Athalie.

Trouvez-vous en Proseppis? — Edward received the Duke of Normandy as if he had been his own son; he gave him arms, horses, dogs and birds of the chase. William, thus favoured by the Saxon king, entertained the hope of succeeding him some day on the throne of England. Edward had no children, and William might fatter himself of being chosen by him as his heir. But he did not give any care to the current of his thoughts, and did not speak to Edward about it, believing things would turn out as he wished.

(Additional for a First Class.)

Traduisez — Molière : *Le Misanthrope*.

Acte I. — Quelques titres honnêtes qu'en tressaillent sur lui dormez, Son miserable honneur se voit pour lui personne : Nouvez-le fourbe, infame, et scélérat mandat, Toute le monde en courtent, et mal n'y contredit, Cependant sa grâce est partout bien reçue : On l'accuseille, on lui rit, partout il échappe ; Et il est, par la grâce, un ruge à disperter, Sur le plus honnête homme, où le voit l'emporter. Titubé ! ce me sort de mortelles blessures, De voir qu'avec la vice on garde des mesures ; Et parfois il me prend des mouvements souffrants De fuir dans un désert l'approche des humains.

Céleste.—Et ne fait-il pas bien que Monsieur contredise ? 13.
A la commune voix veut-on qu'il se réduise,
Et qu'il ne fasse pas débat en tems lieux
L'esprit contrariant qu'il a reçu des cieux :
Le sentiment d'autrui n'est jamais pour lui plaisir :
Il prend toujours en main l'opinion contraire,
Et prend partout un honneur du commun,
Si l'on voyait qu'il fit de l'avis du commun,
L'honneur de contredire a pour lui tant de charmes,
Qu'il prend contre lui-même assez souvent les armes.

1. *Verse 4.—Mettez (en entier) les compléments représentés par les pronoms, en et g.* — *Verse 5.—Simplifiez, au gallicisme l'emporter sur, une expression non-séculaire.* — *Verse 6.—Ecrivez ce vers, employant un verbe personnel au lieu de faut-il.*

2. Expliquez l'inversion du sujet au vers 14., et mettez la phrase en construction régulière.

3. Ecrivez un sommaire (en français) du I. Acte du Misanthrope.

THIRD FRENCH CLASS.

TIME : THREE HOURS.

I *

A. Traduisez : —Molière : *Les femmes savantes*.

Chrysalide (de Belize).—Nos pères sur ce point, étaient gens bien sensés, Qui disaient qu'une femme en sait toujours assez, Quand la capacité de son esprit se laisse A connaître un pointpoint d'avec un bout-de-chanson, Les leurs ne liaient point, mais elles vivaient bien : Leurs ménages étaient tout leur docte entretien ; Et leurs lits, en dé, un fil et des sigailles, Dont elles travaillaient au troissance de leurs filles. Les femmes d'âge présent sont bien loin de ces meuses : Elles veulent servir et devenir auteurs. Nulle science n'est pour elles trop profonde, Et c'ems beaucoup plus qu'en aucun lieu du monde ; Les secrets les plus hauts y's laissent concevoir, Et l'en sait tout chez mal, hors ce qu'il faut savoir. On y sait comme vous lise, étoile polaire, Venus, Saturne et Mars, dont je n'ai point suffisance : Els dans ce vain savoir qu'en va chercher si loin, Ou ne sait comme va mon pot, dont j'ai besoin. Mes gens à la science apprennent pour vous plaisir, Et tous ne font rien moins que ce qu'ils ont à faire.

1. *Elles veulent écrire.* L'infinitif s'emploie comme sujet et comme attribut. Citez deux exs. à l'appui. The printer admits he has committed the crime. He suffers himself to be imposed upon by his friend. They have been acting like madmen. The art of writing. A house to be let. Que faire ? Rendez raison de la différence de construction dans ces phrases.

2. *Manger de, manger à ; prier de, prier à ; tenir de, tenir à.* Ces verbes, selon qu'ils sont employés avec de ou avec à, changent de

* All sentences, both French and English, given in illustrations of rimes, must be translated into English and French respectively.

signification. Écrivez des *ex.* Expliquez la nuance entre : Il *c'est* me parler, il *vient* pour me parler ; il *vient de* me parler ; il *c'est à* me parler ; il *en* *c'est à* me parler.

- Faites les portraits (en français) du Chryséléphant et de Bélise.

R. Traduisez :—Corneille : *Horme*.

Horme.—Si vous n'êtes Romain, soyez digne de l'être ;
Et si vous n'égarez, faites le mieux parfaire.
La Solide vertu dont je fais vanité
N'admet point de faiblesse avec sa formeût ;
Et c'est mal de l'honneur entrer dans la cavaliere
Que die le premier pas regarder en arrière.
Notre malheur est grand ; il est au plus haut point,
Je l'envisage entier, mais je n'en frémis point ;
Contre qui que ce soit que nous payions l'impôts,
J'accepte avantageusement cette gloire avec joie ;
Calé du rovere de tels commandements
Dont étouffier en nous tous autres sentiments,
Qui, pris de le servir, assècheroient autre chose,
A faire ce qu'il doit lâchement se disposer ;
Ce droit saint et sacré rompt tout autre lien.
Rome a choisi mon bras, je n'examine rien ;
Avec une allégresse aussi pleine et sincère
Que j'épousai la sœur, je combattrais le frère ;
Et, pour trancher enfin ces discours superficiels,
Aille vous à sonner, je ne vous censure plus.

L. Si vous n'êtes Romain. Pour quelles raisons la particule se se trouve-t-elle dans les phrases : God forbid ! I fear it will rain. She has not spoken to a living soul. The thing is more difficult than you think. Quand peut-on employer les mots *pas*, *point* et *plus sans* *ne*. Citez des *ex.* à l'appel.

2. Que dit le premier *pas*. Expliquez l'emploi idiomatique de ce dans les phrases : Quot met magno que celu del patro. C'est déclencheur que de parler ainsi. Qu'il fasse le moindre excès, il est malade. Come now that I may speak to you. Why don't you draw near ? Surely he had arrived, when a great tumult arose.

3. Il transrite pour s'enrichir. R le dit pour que vous le sachiez. Traduisez ces phrases, et dites pourquoi l'infiniif ne peut s'employer dans la seconde. Substituez le subjonctif à l'infiniif. s'enrichir au premier *ex.*

II.

1. Do your duty, lest you be punished. Render *lest* (*a*) par *de* *peur que*, (*b*) par *de peur de*, et expliquez la différence dans la construction de ces phrases. Montrez par quelques *ex.* l'emploi du subjonctif dans les propositions subordonnées.

2. Expliquez la nuance entre les phrases : Je crois, qu'il ne réussira pas. Je crois qu'il ne réussisse pas. Tost grand érème qu'est N. et Quelques grand érème que soit N. Croirez-vous qu'il plait ? et Croirez-vous qu'il plaise ?

3. Le subjonctif ne peut être employé dans une proposition principale, quo quand elle est *ajointe*, *déclarative* ou *conditionnelle*. Donnez des *ex.* à l'appel. Nommez les verbes qui demandent le subjonctif avec *se*.

4. Qu'est-ce que le vers *Alexandrie*? Pourquoi les vers suivants sont-ils défectueux : J'y suis encore malgré tes infidélités. Je suis que

l'imposture vous invite en secret. Et trois fois le jour a chanté la nuit obscure. Corriger-les.

5. Formez quatre vers *Alexandrie* du passage suivant : Je ne suis point un docteur vain, mon frère ; et lo savoir n'est pas tout retirer chez-moi. Mais, pour toute ma science, je suis, en un mot, faire la différence du froid avec le vif.

Traduire en Anglia : (a). In Sparta one accustomed the children very early to walk in the dark, in order that they should contract the habit of it, not thinking not to give way to bad temper ; to walk barefoot ; to sleep on a hard couch, and often on the ground ; to wear the same garment in winter and in summer, in order to harden themselves against cold and heat.

(b). *Mardon*.—Is this a dagger which I see before me, the handle toward my hand ? Come let me clutch them : I have thee not, and yet I see thee still. Art thou not, fatal vision, snarling to me as to sight ? or art thou but a dagger of the mind, a fatal creation, proceeding from the heat-oppressed brain ? I see thee yet, in form so palpable as this which now I draw.

(Additional for a First Class.)

Traduisez :—Molière : *Le Tartuffe*.

Claude.—Ces gens qui, par une âme à l'intérêt soumise,

Fond de dévotions matin et marchandises,
Et veulent acheter orgueil et dignité
A prix de faire culte d'yeux et d'âmes affectées ;
Ces gens, dis-je, qu'on vult, d'une ardeur non commune,
Par le chemin du ciel courre à leur fortune ;
Qui, berlants et priants, demandent chaque jour,
Et prêchent la rétrola au million de la cœur ;
Qui savent ajuster leur rôle avec leurs vices,
Sont prompts, vindicatifs, sans foi, pleins d'artifice,
Et, pour perdre quelqu'un, convient insolencement
De l'intérêt du ciel leur fier rossignol ;
D'estant plus dangereux dans leur âpre colère,
Qu'ils prennent contre nous des armes qu'on révère,
Et que leur passion, dont on leur ait bon gré,
Vient nous assommer avec un fer sacré ;
De ce faux caractère en un vœu très-parsifile,
Mais les dévots de cœur sont nuds à contrarie.
Notre siècle, mon frère, en expose à nos yeux
Qui peuvent nous servir d'exemples glorieux.

1. Ces gens, dis-je, qu'on voit. Expliquez la position de *je*. Quand l'inversion du complément peut-il avoir lieu ? donnez quelques *ex.* à l'appel.

2. Donnez les dérivés français et leurs genres de : abus, abus, liber, liber, somme, somme, palpus, palpus. Rendez compte de la différence (en genre et en signification) entre : le critique et la critique ; le pasto et la pasto ; le souris et la souris ; le tour et la tour.

- Faites un építome (en prose française) du *Acte du Tartuffe*.

GERMAN.

Examiner PROFESSOR J. LERICHT, M. A.

FIRST GERMAN CLASS.

TIME: THREE HOURS.

I.*

A. Translate:—Jean Paul: *Die Nachkommenschaft eines Unglücklichen.*
 —Mitten in dem Kampf diese plötzlich die Musik für das Neujahr von
 Thürme hereinlädt wie ferner Kirchenläute. Es wurde sofort
 bewegt er schaute um das Horizont heben und über die weite Erde,
 als er dachte an seine Jugendfreunde, die san, glücklichen und lieb
 als er, Lehrer der Erde, Väter glücklicher Kinder und gesegnete Men
 schen waren, und er sagte: "O, ich könnte auch wie ihl diese ganze
 Nacht mit trocknen Augen verschlummern, wenn ich gewollt hätte.—
 Ach, ich könnte glücklich sein, ihr thürem Eltern, wenn ich eure
 Neujahrswünsche und Lebten erfüllt hätte!" In seelhaften Erinnern
 an seine Jünglingstagen kam es ihm vor, als nichts sich das Larre mit
 seinen Zügen ins Todeshaus auf—endlich wurde sie durch das
 Abbergalben, der in der Neujahrsnacht Geister und Zukunft erblickt,
 in einen lebendigen Jüngling.

1. *Herrscher*: (fulfilled) *Mitte*; (*the firm*) *vor*. Parse the words in
 Italian, and give reasons for their position. In the sent.: *Ach, ich könnte*
 . . . *hätte*, invert the order of the clauses, adopting contraction, where
 possible, and noticing change that may occur in the construction.

2. Explain the modus operandi of contrasting senta, like the following: *erfuhr* wurde *sie* . . . *Jüngling* (A.). Give the derivation
 of *Jüngling*, and mention its femin. Decline in the 4 cases sing. and
 plur.: *Mit trocknen Augen*.

3. Which is the logical order of words in a German sentence? In
 illustration compose a principal clause, with a verb in a compd. tense,
 adverbials of time and place, the *narr*, *nicht*, and a noun object. Show
 by means of the same clause, the various ways in which the regular
 construction may be departed from. Indicate the difference between:
 Der Kranke wurde von den Ärzte *nicht* geheilt. Der Kranke wurde
 nicht von den Ärzte geheilt. *Nicht* der Kranke wurde von dem Arzte
 geholt.

B. Schiller:—“Willeh. Tell.”

Stingfischer.—Der wackern Männer kann' ich viele dort
 Und sogenesene grosse Herrenleute,
 Die mir geheizt sind und gar wohl vertraut.
 (Er steht auf.)

Fran, welchen Sturm gefährlicher Gedanken
 Weckst du mir in der stillen Nacht! Mein Innern
 Kehrt du das Licht des Tages mir entgegen,
 Und, was ich mir zu denken still verbot,
 Da spricht's mit lebter Zunge kecklich aus.
 — Hast du auch wohl bedacht, was du mir nützt?
 Die wilde Zwiestracht und den Klang der Waffen
 Ruft du in dieses friedgewohnte Thal.—

Wie wagten es, ein schwaches Volk der Hirten,
 In Kampf zu gehen mit dem Herrn der Welt?
 Der gute Schein nur ist's, wosich sie warten,
 Uns loslassen auf dies arme Land.
 Die wilden Horden ihrer Kriegesschäfte,
 Darin zu schalten mit den Sängers Rechten,
 Und unterem Schein gerechter Zärtigung
 Die alten Freundschaftsbriefe zu vertilgen.

1. Know' ich viele dort. Parse *heist* and mention all the words
 of the same class. How do you translate know in the follow. senta: I
 know Schiller's works. He does not know when he is to leave. Do
 you know German? These people don't know how to write. Know good
 from evil.

2. Explain the terms: *Herrsende*; *feindgesetzte*; *Zwecktreu*;
Freiheitstreuer. What peculiar use is made of *Liebe*? Give instances.
 Distinguish between: *Zusammen* and *Zusätzlich*, and write the singul.
 of each. Write down the plural of: *Tod*; *Liebe*; *Rath*; *Leb*, *Ehr*,
Verschick.

3. *Wortgr.*; *doris* (R.). How are such words formed? Mention
 other analogies *formis*. Illustrate their use by short ex. Haben sie
 sic nicht geschenkt? Why is such a construction inadmissible? Trans
 late and correct the ex.

C. Schiller:—“Wittmann's Abschied” — Sturm, wie die
 Zugzüge zu ihm, war ans sein Umgang. Fliester, verschlossen,
 unerträglich, sprach er sein Worte mehr als seine Geschenke, und
 das Weinen, was er sprach, wurde mit einem widerum Ton ausge
 stossen. Ein langes Blut, immer gesellig und von grünes Entzücken
 besetzt, setzte er allen letzten Zerstreunungen, wodurch Andere das
 kostbare Leben vergaßen. Einen durch ganz Europa angezeichnete
 Hoffnungslos hörgerichtet er selbst; die meisten Aufsätze schrieb er mit
 eigener Hand nieder, um der Verschwiegenheit Anderer so wenig als
 möglich anzuvertrauen. Ein durchdringbar, zerfließender Ernst
 lag auf seiner Stirn, und nur das Übermaß seiner Belohnungen
 konnte die letztere Schärfe seiner Dieser festhalten.—Der blenden
 Schimmer seines Privatlebens verrieth den stolzen Schwung seiner
 Entwürfe, und verschwederlicher wie ein Monarch schien er die Güter
 seiner Hoffnung schon unter seine gewissen Besitzungen zuählen.

1. Stamm wie die Zugzüge zu ihm. Parse wie and ihm. Decline
 the pass. er, sie (plur.), es. Translate the follow. sent and account
 for the altergata use of als and wie before the nouns: Sokrates lehrte
 als Mann wie ein Engel, und starb als Greis wie ein Verbrecher. Is
 what case does the adj. resultainfected: give an ex.

2. Ein farbtheater, verschwender Ernst. What changes
 would occur in this sent., were you to use *färbertheater* instead of *farbtheater*? Translate: We have brought a newly painted house but not a
 new, painted house. Ein gut englisch sprechender Student. Ein gut
 englisch sprechender Student. Vier bessere Lässer. Fünf bessere
 Lässer.

3. Die meisten superlat. Parse die meiste. Write the com
 parative and superlative of: gut, wenig, bald, gern. What form does
 the superlative assume, if the adj. is predicative after *soin*? write
 an ex.

* Answer only two questions of A, B and C respectively; and six of Part II.

II.

1. Parse and classify the following verbs : *dom, dachte, esfält* (A); *stuf, spricht's loslassen* (B); *widste stossen, auszusetzen, lossete* (C).
 2. Bestoken, entsetzen, entzehen, entsetzen. Distinguish between those verbs. What meaning do the italicised prefixes impart to the verb, and how do they influence the *p. part.*; a certain termination exhibits the same peculiarity. Give instances.
 3. What distinction is to be made between : widerstreiten and wider sprechen. Write the 1st pers. s. each, of the present and the perfect indicat. of these verbs. *Ueberzeugen* admits of two interpretations according as it is *spr.* or *lossp.* Illustrate and write the respective *p. parts.*

4. In what particulars does the English *Possessive* differ from the German *Possessiv*? Give illustrations. What form, and why, do *senta*, like the following assume ? The master has not been thought of (*an.*). Certain persons are very much talked of (*über.*).

5. Er wird seines Pflicht nicht halten than wollen. Account for the two infinitives. Shylock would not take any money from Antonio; he would not take anything but his pound of flesh. Translate, and state why *nicht* cannot be used in these clauses.

6. Illustrate the use of : *der beste*; *am besten*; *auf's beste*; *am allerbesten*; *beköft*; *fremdlich*.

7. What class of words do you form with the suffixes : *Anft*, *isch*, *ung*, *shn*. Give exs. When is an object *Altherren*, *Adelsicht*, or *hohing*; when is a person *oddler*, *wider* *adolsen*.

8. Distinguishing, giving exs., between : *dann* and *dann* : *wenn* and *wenn*. What does the *propositio* in a conditional sent. adopt the inserted *oder*? Translate as an ex.: If I had the means, he would go to Italy.

Translate into German :—(a). He who gives little and comforts, does more than he who gives much and reproaches. Schiller was born in 1759 (Heute); he was only 18 years old when he wrote his first drama. Shakespeare's works have been translated by Schlegel. What are you thinking of? I am thinking of going to Europe. There are people who cannot write. All I have is yours. A few days ago.

(b). Tales from Shakespeare :—The king being tired with his journey, went early to bed. He had been unusually pleased with his reception (*Empfang*) at L. and had made presents before he retired to his principal office; and among the rest, had sent a rich diamond to Lady Macbeth, greeting her by the name of his most kind hostess.

SECOND GERMAN CLASS.

TIME: THREE HOURS.

I.*

A. Schiller :—*Maria Stuart.**Maria* (nach einigem Stillschweigen)

Ich höre standend die Gewalt des Mundes,
Der mir gesagt, je so unbeherrschend war—
Wie werd' ich mich in dem angelebten Weib,
Mit so kummert'geßt! Höre, muss' kleinens!—
Wohl! Wären diese Lords, wie Hir sie schillert,
Verstummen mädest' ich, hoffnungslos verloren
Wür' meine Sache, sprächen so sich schnellig.

Doch dieses Namens, die Ihr preisend seinet,
Die sich durch das Gesetz normalisieren sollen,
Mylord, ganz andre Rollen seh' ich sie
In den Geschichten dieses Landes spielen.
Ich sehe diesen hohen Adel Englands,
Den Herrn als rechten Menschen Sonat,
Gleich Sklaven des Seruus des Sultanlasses
Herrn des Achtes und zehnten Grosshabs, schmeichelnd—
Ich sehe dieses edle Oberhaupt,
Gleich feil mit dem entümlichen Gemüden,
Gesetz prägen und verrufen, Ehren
Außen, binden, wie der Mächtige
treibt, Englands Fürstentümlicher heut
Entsetzen, mit dem Bastardnamen schänden
Und morgen sie zu Königinnen können.

1. Write the first two lines (A) in a contracted form. When is the contraction of substantive clauses possible? when impossible? Explain, and take for exs.: It is a man's duty that he acknowledges (bekennen) his faults. I am glad that you are coming. He is sorry that he has to offend (irritieren) some of his friends. I have been told that he had left the country.

2. *Wohl!* The following words are used as expletives: *ja*, *doch*, *wohl*, *auch*, *par*, *schen*. Write a few short sentns. in illustration, and give the original meaning of these words.

3. *Selb' ich sie . . . spieles.* What English verb form does the infinitive, dependent on *schien* and similar verbs, represent? Mention other verbs of the same class. Why is the infinit. not used in sent. like : Then comes the Queen riding in her gills carriage of state.

B. Goethe: "Herzen und Durachen."—*Die Bürger.*

Aber der Vater fuhr in der Art fort, wie er begonnen:
Was im Menschen nicht ist, kommt auch nicht aus ihm, und
scherwirlich

Wird nach dem herzlichsten Wunschen Erfüllung jemahl erfroren,
Dass der Sohn dem Vater nicht gleich sei, sondern ein besser.
Denn was wirkedes Herzens wird wie die Stunde wenn nicht immer
Jeder geistliche mit Lust und erfreut und zu erfreuen
Will zu verführen sich, wie die Zeit und lobet und das Ausland?
Soll doch nicht als ein Vater der Mensch dem Boden entwachsen,
Und schlecht geschwunden an dem Platze, der er sonst hat,
Keine Spur mehr davon von seiner lebensfähigen Wirkung!
Sieht nun am Hause doch gleich so deßlich, wenn nimmt der
Herr sei.

Wie man, das Stükken betretend, die Obrigkeiten beurtheilt,
Daun wo die Thürme verfallen und Mauers, wo in den Gräben
Unrat sich häuft, und Unrat und allen Gassen herumliegt,
Wo der Stein aus der Fuge sich rückt und nicht wieder gesetzt wird,
Wo der Balken verfällt und das Haus vergleichbar die neue
Untersetzung erwacht: der Ort istibel regiert.
Denn wo nicht immer von oben die Ordnung und Reislichkeit
wirkt,

Da gewöhnlich sich leicht der Bürger zu schmutzigen Sammeln,
Wie der Bettler sich auch an lämpige Kleider gewöhnet.

1. *Sondern ein besser.* Explain the ellipsis in this clause. Distinguish carefully, with ample illustrations, between the three conjuncts, answering to the English *but*, and give their original meaning. Mention a few terms analogous to *sundown*.

* Those, taking the Additional, may omit passage (a) for translation into German.

2. *Denn was willst du Hess?* Contrast them and *denn*; *wann* and *wen*; *zu* and *als*; *wann* and *wer*. Show by an ex. that the dependent relative clause may precede the principal clause in a certain case only.

3. Keine Spur anklagend. What character must the German Present Part. seem to be used both *periodically* and *adverbially*? Write an ex. The English participle active must be paraphrased in German; take for exx.: God, having created the world is six days, rested on the seventh. Wishing to learn the truth, he wrote to his minister. He saved his country by sacrificing his life. Judging from his appearance he must be ill.

II.

1. Classify, and give the principal parts of: *gefährlich*, *entzücken*, *anklägen*, *herauslegen* (B); *stricken*, *überzeugen*, *vergessen*, *überleben*.

2. Idiomatic expressions:—*Immer* guter Diagnose sein. Den Beobachter hinter hängen. Sie kann es nicht über das Herz bringen. Sich eines Besseren bessinnen. Er blieb das Gras wachsen. Er hat zu leben. In den Tag hinein leben. Sie gießen sich zu Wasser.

3. He said he had never been in Europe, but he would go there this summer. This lady is said to be very clever. I do not think of following his advice. Translate these sent., and give reasons for difference in construction.

4. An *adverbial* use is made of some positive forms; take for exx.: We usually study in the evening and take a walk in the afternoon. The subject, *wer*, may govern two cases? Explain and translate: It is worth your while to examine these works. This article is worth one dollar.

5. Write a summary (in German) of the parts read of "Hermann and Dorothea."

Translate:—(a) Macbeth, who stood listening to them, tried to say, "Amen," when the fellow said, "God bless us, but, though he had need most of a blessing, the word stuck in his throat, and he could not pronounce it. Agala he thought he heard a voice which cried, "Sleep no more; Macbeth doth murder sleep, the innocent sleep, that souls sinne."

(b) "Hermann and Dorothea" is a poem full of life, character and beauty; simple in its materials, astonishingly simple in its handling (*Reihenbildung*); written in obvious imitation of Homer, and yet preserving throughout the most modern colour and sentiment. Of all idylls it is the most idyllic; of all poems, describing life and country people, it is the most truthful.

(Additional for a First Class.)

Translate:—Schiller: "Geschichte des dreißigjährigen Kriegs."

Deutschland servirte und dieses Reichstage zu Aueburg in zwei Religionen und in zwei politischen Parteien; jetzt erst war es, weil die Trennung jetzt erst gescheit war. Bis hierher waren die Protestantischen als Städteherren angesehen worden; jetzt beschlossen nun, sie als Brüder zu behandeln, nicht als ob man sie dafür anerkant hieße, sondern weil man dass gescheit war. Die Anglikanische Confession durfte sich von jetzt an neben den katholischen Glauben stellen, doch nur als eins geduldete Nachbarin, mit einstweilen schweizerischen Rechten. Jedem weltlichen Reichstande ward das Recht zugestanden,

die Religion, zu der er sich bekannte, auf seinem Grund und Boden zur freien Ausübung und einzigen zu machen, und die entgegengesetzte der freien Ausübung zu verbieten; jeden Untertanen vorgerichtet, das Land zu verlassen, wo seine Religion unterdrückt war. Jetzt zum ersten Mal erfreute sich also die Lehrer *Lutheri* einer positiven Sanctio, und wenn sie auch in Bayern oder in Oesterreich im Staate lag, so konnten sie sich damit trotzen, dass sie in Sachsen und in Thüringen throtze.

1. *Sie als Brüder zu behandeln.* How would the substitution of *wie* for *als* affect the meaning of this clause? Illustrate the use of these particles of comparison. Translate: He is sure to be pitied than any one else. It is as cold as in midwinter. Give your reasons for using either *wie* or *als* in these sent.

2. Compose a compound sent. containing a principal clause with a dependent substantive clause (subject or object), and an adjective or an adverbial clause, or both. There is another way in which compound sent. may be formed. Write a short ex.

THIRD GERMAN CLASS.

TIME: THREE HOURS.

I.

A. Übersetzen:—Lessing's "Nathan der Weise."

Nathan.—Steh! und nichts als Stoh! Der Turf
Von Eifer! und nichts als Stoh! Zunge
Gewiss das Glied gehönen sein, um selbst
Ein Turf von Silber sich zu stöcken.—Psah!
Und was es schadet, fragt du? Was es schadet?
Was hilft es? diest? Ich nur hinsieder fragen.—
Dann doch! Sich Gott so viel näher hühlen!
Ist Unsin oder Gottseligkeit?—
Allein es schadet; ja, es schadet allerdings.—
Kourmt! hieß mir zu.—Nicht wahr? dem Wesen, das
Dich rettete,—es sei ein Engel oder
Ein Mensch,—dem schücht' Du, und du besonders,
Gern wieder viele grüne Distanz than?—
Nicht wahr?—Nun, eines Engels, was für Dienste,
Für grüne Dienste kennt Ihr denn wohl than?
Du kleint ihm danken; zu ihm seufzen, beten;
Ehest in Entschuldigung über ihm mordschreien;
Künzt an den Tage seiner Feier fasten,
Almosen spenden.—Alles nichts.—Denn nich
Dacht immer, dass Ihr selbst und euer Nächster
Hierbei weit mehr gewinnt, als er...

1. Gottseligkeit! Wie ist das "*zu*" zu erklären bei solchen fonskisnis wie: *Frauen-persön*, *Freundschafts-bind* etc.; was nennt man Alterform? Zeigt in einigen Beispiele des Reichthum der deutschen Sprache hinreichlich der Werthbildung.

2. *Frag' du!* Wie ist die Inversion in einfachen und zusammenhängenden Sätzen anzuwenden. Hebt verschiedene Satzthüle in den folg. Stellen hervor: Fidelity is beautiful nevertheless. That will never happen. Narrow the road that leads to life. Guilt is the greatest of evils. He had thrown down sword and shield. This is affair, successful beyond all expectation. I have done what I could (do).

3. Wir sind wohlhabende in Berlin angekommen und haben wir uns bereits ein wenig angesehen. Warum ist die Inversion nach dem koppelativen und fehlerhaft, und wann kann dieselbe gestattet werden? Führt ein Beispiel an.

B. Goethe's "Egmont." Margarete von Parma.

Egmont.—Ihr stellst das Jagen ab, ich werd heut nicht reiten,
Sagt Machiavelli, er soll zu mir kommen. [Alle gehen ab.] Der
Glanzlos ist aus dieser schrecklichen Bagelbenahmen blut und keine Ruhe!
Nichts kann mich ergetzen, nichts mich zuvertrauen; und diese
Bilder, diese Sorgen vor mir. Nam wird der König anger, die seien
die Folgen meiner Nachsicht; und doch sagt mir mein Gewissen jeden
Angeblick, das Ehrliche, das Beste gethan zu haben. Sollte ich
früher mit dem Sturme des Gewinnes vergessen, Flammen aufzufangen und
unbertheilen? Ich hoffe sie zu maestellen, sie in sich selbst zu
verschließen. Ja, was ich mir selbst sage, was ich wohl wäss, ent-
schiedlich nicht vor mir selbst; aber wie wird es mich Bruder aufsuchen?
Dann ist es so langsam? Der Uebermuth der feinen Lehrer
hat sich täglich erhöht; sie haben unser Hellinghem gekräutert, die
stumpfen Säus des Pöbels verrißt und den Schwefelgeist unter sie
gelassen. Ursine Geister haben sich unter die Auführer geschenkt, und
schreckliche Thaten sind geschehen, die zu denken schändhaft
ist und die sich nun sisselfs nach Hofe zu berichten habe, schnell und
etwa, damit der König nicht denkt, man wolle noch mehr verhain-
liches.

1. Sowol; kommst; wolt. Warum stehen diese Zeitwörter im
Konjunktiv des Präsens? In den folgenden Sätzen steht bald der
Konjunktiv des Imperfektivs; bald der Infinitiv? He anxiously
asked whether you were not hurt. Pray God that He may enlighten
you. I like a way that resembles mine. I cannot tell yet what I will
do. There was none but (der nicht) believed everything he said.

2. Zu erklären. Der Infinitiv steht bald mit bald ohne zu.
Erklärt den Gebrauch desselben durch einige Beispiele. Wann ist der
Infinitiv mit zu als vorläufiger Adverbialbestimmung anzusehen?

3. Der Gedenktag. Was für Präpositionen regieren die Zeitwörter
für: sich freuen, erwarten, spotten, sich erkennen, sich frecken, glänzen.
Schreibt die aus diesen Zeitwörtern zu bildenden Substantivierungen.

II.

1. Auf welche Weise wurden die folgenden Perioden klassifizirt;
ist ihre Form fest oder vorwürzend; sind es einfache oder zusam-
mengesetzte Perioden? —

(a). Kaiser ist bestellt sich selbst zu richten; denn selbst schlägt
er recht, was er gethan, und was er thut, weiss er fast nie zu richten.
—Goethe.

(b). Nachdem die Empfänger aus willem Antheil gekommen war,
und eine kluge Geduldigkeit allein dem neuen Bürgerklage wahren
konnte; fühlte die Staatsherrschaft seinen Mannen zu, dem zu diesem
Posten gerade diese einzige Tagung fehlte. —Schiller.

(c). Das Blau, das der Mann, der mindig, dem Maans zufügt,
das, ich will es glauben, vergißt sich und verschüttet sich schwer; (denn)
der Maas will seinen Haar, und keine Zeit verkostet den Entschluss,
den er wohlbekannt hat; doch eines Haders Ursprung steigt hinauf
in unverständige Kindheit frühe Zeit. —Schiller.

2. Themen zu einem kurzen deutschen Aufsatze:—

- (1). Die Erfindung des Telephones.
- (2). Vaterlandsliebe.
- (3). Die Ausweitung des Reichtums.

Übersetzen ins Deutsche:—Two names shine forth before all others
in the history of the heroes and martyrs of the Netherlands: Lamoral,
Count of Egmont, and William, Prince of Orange. Both were
Tulipians, but the one was a genuine Fleming, and the other by birth a
German. Both were popular favourites, but the one was cherished by
the people with the affection of an indulgent father, and to the other
they looked up with filial veneration. Upon both nature had lavished
her choicest gifts, but upon the one she bestowed those brilliant attri-
butes which dazzle the eye, and upon the other the moral qualities
which excite the admiration of nature minds.

(Additional for a First Class.)

Übersetzen:—Schiller's "Wallenstein's Tod."

Wallenstein:—Und was ist dein Beginnen? Hast du dir's
Auch redlich selbst bekannt? Du willst die Macht,
Die ruhig, sicher thronende erschüttern,
Die in verächt' geistigem Besitz,
In der Gewohnheit festgegründet ruht,
Die an der Welt's freiem Kinderthaben
Mit tausend süssen Wünseln sich befestigt.
Das wird kein Kampf der Kraft sein mit der Kraft;
Der Siegh' ist nicht. Mit jedem Gegner wag' ich's,
Denn kann ich nicht um ein Auge fassen,
Der, selbst voll Macht, auch den Muth entfremdet.
Was unsrer Frei' ist's, den ich fürchte,
Durch fiktige Furcht. Diese Furchterfüllt—
Nicht, wie sonst die kraftvoll sind verkräftigt,
Ist das gefürcht' Furchtbare. Das ganz
Gemeine ist's, das schw'Gentige,
Was immer war, und immer wiederkehrt,
Und morgen gilt, weil's heute hat gegolten?
Denn als Gemeines ist der Mensch gemacht,
Und die Gewohnheit nimmt er seine Ahnen.
Weh dem, der an des würdig alten Haussath
Ihm röhrt, das lieue Erbstück seiner Ahnen'.

1. Wodurch haben sich Lessing und Schiller sammlich ausge-
zeichnet, und welches sind ihre hauptsächlichsten Werke? —

ENGLISH LANGUAGE AND LITERATURE

Examiner..... W. J. ALEXANDER, PH. D.

FIRST YEAR.

TIME: THREE HOURS.

(The whole paper will be regarded as a test of the candidate's ability
to handle the language, and marks assigned accordingly.)

1. Express the substance of the following accurately in simple
prose:

The march begins in military state
And nations on his eye suspended walt;
Stern famine guards the solitary coast,
And winter barricades the realms of frost.

He comes; nor want nor cold his course delays—
Hail, blushing Glory, hide Fullow's day!
The vanquished hero leaves his broken bands,
And shows his misery in distant lands;
Confounded a needy suppliant to wait,
While ladies interpose and slaves debate.

2. Explain what is italicized in the following:

- (a). In his minister hand, *instead of* half,
He placed a mighty mug of potent ale.
- (b). When *Jabel* struck the corded shell,
- (c). As from the power of sacred lays
The spheres began to move.
- (d). On shining altars of Japan they raise the silver lamp.
- (e). And with talk *lodging* in the round of bone,
- (f). Not half so fixed the Trojan could remain,
While Axes *beyg'd* and Dicks *rayg'd* in vain.
- (g). What gave great *Villiers* to the assassin's knife,
And fixed disease on Harley's closing life.
- (h). Or where *Campania's* plains *foreboden lies.*

3. Name the poems from which each of the following is taken, and indicate the context in each case:

- (a). What time could spare, from steel receives its date,
And monuments, like men, submit to late.
- (b). O then how blind to all that truth requires,
Who think it freedom when a part aspires.
- (c). Far from the madding crowd's ignoble strife,
Deign on the passing world to turn thine eyes,
And pause awhile from learning to be wise.
- (d). Thoughtless as monarch oaks that shade the plain
And, spread in solemn state, seepily reign.
- (e). For praise too dearly lov'd, or warmly sought,
Eafehles all internal strength of thought.

4. Define accurately each of the following Hellenic words, as employed in the passage quoted:

And fubes dulness played about his face. With singing, laughing, crying, and all that. She smiled to see the *doughty* hero slain. The *shapely* young fell in man. The *dearful* trials in *reson* were *valable*. Yet should my soul indigne the *gracious* hand. Nor give the *knedge* breadth. To *prise* a sword and acon a tale. Its former strength was but *pishke* ill. Now yester eve, where once a garde smilid. How do thy petions, with *assiduous* joy diffuse their pleasure.

5. Write a concise life of Johnson.

6. Reproduce Johnson's description of Dryden's character.

7. Determine on grounds of style the author of each of the following passages, assigning your reasons in each case:

- (a). Known truths, however, may take a different appearance, and be conveyed to the mind by a new train of intermediate images. This

Milton has undertaken, and performed with a pregnancy and vigour of mind peculiar to himself. Whoever considers the few radical positions which the Scriptures officiated him, will wonder by what energetic operation he expanded them to such extent, and ramified them to so much variety, restrained as he was by religious reverence from licentiousness of fiction.

(b). Perhaps the gods and demons of Aeschylos may best bear a comparison with the angels and devils of Milton. The style of the Athenian had, as we have remarked, something of the Oriental character; and the same peculiarity may be traced in his mythology. It has nothing of the serenity and elegance which we generally find in the superstitions of Greece. All is rugged, barbaric and colossal. The legends of Aeschylos seem to harmonize less with the fragrant groves and graceful porticos in which his countrymen paid their vows to the God of Light and Goddess of Desire, than with those huge and grotesque labyrinths of eternal granite in which Egypt enshrined her mystic Osiris, or in which Hindostan still bows down to her seven-headed idols.

(c). And here I must observe, that when Milton alludes either to things or persons, he never quits his shield till it rises to some very great idea, which is often foreign to the occasion that gave birth to it. The resemblance does not perhaps last above a line or two, but the poet runs on with the hint, till he has raised out of it some glorious image or sentiment proper to enflame the wits of the reader, and to give that sublime kind of entertainment which is suitable to the nature of an heroic poem.

(d). The immoral writers of the seventeenth century are indeed much less execrable than those of Greece and Rome. But the worst English writings of the seventeenth century are decent compared with such that I have been bequeathed to us by Greece and Rome. Plato, we have little doubt, was a much better man than Sir George Etherege. But Plato has written things at which Sir George Etherege would have shuddered.

(e). It seemed impossible to him to be ill, and his disorder made it difficult or dangerous to be long seriously studious or laboriously diligent. The love of ease is always gaining upon age, and he had one temptation to petty amusements peculiar to himself; whatever he did he was sure to hear applauded; and such was his predominance over all that approached that all their applause were probably sincere. He that is much flattered soon learns to flatter himself: we are commonly taught our duty by fear or shame, and how can they act upona the man who hears nothing but his own praises?

(Additional for First Class.)

GOLDSMITH'S SELECT ESSAYS; JOHNSON'S LIVES OF POPE, ADDISON, AND GRAY; DRYDEN'S STANZA ON OLIVER CROMWELL, ANTHEA EREUX, ANNUS MIRABILIS, ABASOLM AND ACHITOPÆL.

TIME: TWO HOURS.

8. Reproduce what is said of the *Tutor* and *Spectator* in the Life of Addison.

9. Give an outline of Pope's life, mentioning his principal works, and very briefly describing each of them.

10. Explain :
- Like eager Romans, ere all rites were past,
Did let too soon the sacred eagle fly.
 - Our former chiefs like *strollers* of the war.
 - The sacred purple and the scarlet gown,
Like sanguine dye to elephants was shown.
 - And guard with caution that polluted nest
Whence Legion twice before was disposed,
 - Yet judged, like vapours that from limbes rise,
It would in richer showers descend again.
 - With such respect in entered Rome they gazed
Who on high chairs the god-like fathers saw.
 - Some falcon stoops at what her eye designed
And, with her eagerness the quarry raised,
Straight flies at chace, and clips it down the wind.
 - Though made immortal by a poet's song,
And poet's songs the Tholian walls could raise.
 - Now frequent trines the happier lights among.
- II. Give a critical account of Absalom and Achitophel.

SECOND YEAR.

CÆSAR, PARADISE LOST, BOOKS I.-IV.; MERCHANT OF VENICE,
HENRY IV., PARTS I. AND II.; HENRY V.

TIME: THREE HOURS.

I. Explain fully—

- And all this tract that fronts the falling sun,
A noble peer of mickle trust and power
Hath in his charge.
- And then shall be our star of Arosy,
Or Tyrian cynosure.
- O foolishness of men ! that lend their ears
To these budge doctors of the stovic far,
And fetch their precepts from the cycic tub.
- What matter where, if I be still the same,
And what I should be, all but less than he
Whom thunder hath made greater.
- What resounds
In fable or romance of Uther's son
Begirt with British and Armoric knights.
- A gulf profound as that Serbonian bog
Betwixl Danists and Mount Caucas old.
- They pass the planet serres, and pass the fixt,
And that crystalline sphere whose balance weighs
The trepidation talk'd, and that first mov'd.
- More lovely than Pandos, whom the gods
Endow'd with all their gifts, and O too like
In sad event, when to the unwise son
Of Jupit' brought by Hermes, to be aveng'd
On him who had stole Jove's authentic fire,

SESSIONAL EXAMINATIONS.

- Make a table containing the main events of Milton's life and his chief works in chronological order, inserting exact dates where you can.
- Compare Shakespeare and Milton as men.
- What were the sources of the *Merchant of Venice*, and how does Shakespeare treat them ?
- Describe the trial scene in the *Merchant of Venice*.
- Discuss the character of Henry V. as exhibited in the three plays.
- Annotate two phrases in each of the following four groups :
Upon the *Risal*. Give him a livery since *guarded* than his fellows. The patch is kind enough. These assure but valor's excess.—*Merch. of Venice*.
Indot with scars. He frets like gunned velvet. To play with meanness. Ruled like eagles.—*Hen. IV.*, Pt. I.
I was never matched with an agate till now. I am a proper fellow of my hands. She never could away with me.—*Hen. IV.*, Pt. II.
Dost thou with superfluous courage. He hath stolen a paix. The forced title running 'fore the king. A mighty whifler.—*Hen. V.*

(Additional for First Class.)

ROMEO AND JULIET, AS YOU LIKE IT, MACBETH, WINTER'S TALE.

TIME: THREE HOURS.

II. Describe the character of Macbeth.

- Name any points in which Macbeth surpasses all the other seven plays assigned.
- It has been said that in some points and parts *Romeo and Juliet* is an immature work, in other respects and other portions it is little, if at all, inferior to Shakespeare's most successful efforts; cite definite points and passages to illustrate this remark.
- Discuss the date and text of *Romeo and Juliet*.
- Give a critical account of the plot of *The Winter's Tale*.
- Describe any character in *As You Like It*.
- Point out the peculiarities of the following passages which serve to show that one was written early, the other late in Shakespeare's career.
- A cause more promising
Than a wild declination of yourselves
To upstart' d wak'd, undressed sheens, mad certain
To miseries enough ; no hope to help yea,
But as you shake off one to take another;
Nothing so certain as your anchors, who
Do these best office, if they can but stay you
Where you'll be loath to be. Besides you know
Prosperity's the very bond of love,
Whose fresh complexion and whose heart together
Affliction alters.

- (b) "Tis the way
To call her, exquisite, In question more,
These happy marks that kiss fair ladies' brows,
Being black, put us in mind they hide the faire;
He that is stricken blind cannot forget
The precious treasure of his eyegift lost,
Show me a mistress that is passing fair,
What dith her beauty serve but as a note
When I may read who passed that passing fair?

HISTORY.

Examiner FREDERICK FORREST.

THIRD YEAR.

Topic: Towns BOOM.

1. Give a brief account of the early history of the Goths. What historian gave the first account of their early movements?
2. "An obscure town of Moesia called Forum Triumphi was the scene of the battle." (A.D. 251). Explain.
3. In Chapter X. Gibbons describes the "Political System of Constantine and his sons." What does he say of Taxation?
4. Give brief description of the four divisions of the Tartar race.
5. Write a short account of the defeat and death of Valens.
6. Give leading events of the reign of Heraclius.
7. Trace briefly the progress of Mohammedanism during the first century of its history, giving in order the countries conquered.
8. Narrate the chief events of the reign of Philip IV. of France.
9. Give a short account of the rise of the Ottoman Empire.
10. What was the Golden Bull of Charles IV.? How did it affect the German Constitution?
11. Give an account of the life and work of Savonarola. Trace the influence which he exercised on the new learning in England.
12. Over what countries did Charles V. reign? How did he come to possess them? What became of them on his abdication?
13. Rome was pillaged in 1527. Give a short account.
14. Give a brief account of the Diet of Worms (1521). Diet of Spire (1529), and Diet of Augsburg (1530).

FOURTH YEAR.

Topic: Town BOOM.

1. Trace briefly the causes which led to the Thirty Years' War.
2. At the commencement of the Thirty Years' War "Two men stood forward to personify the elements of strife." Who were they?
3. "In the spring of 1609 the Duke of Cleves died." Give an account of the dispute about the succession.
4. A diet was held at Frankfurt in 1613. Give an account of its work.

EXTRA POLITICAL ECONOMY THIRD TERM.

1. Give substance of Cossa's chapter on importance of Political Economy.
2. State and examine some of the objections that are made to the study of Political Economy.
3. Political Economy in Ancient times and middle ages.
4. A complete revolution took place during the 18th century in circumstances, institutions, opinions and theories alike. Explain.
5. The Economists of the 17th Century may be divided into three classes. Give them. Name a few leading writers.
6. Write a brief article on the Physiocratic School.
7. Give leading characteristics of Smith's "Wealth of nations".
8. Give Cossa's views of the German Political Economists.

5. The Treaty of Lübeck 1629. Who were parties to it? What were its terms?

6. "When Charles XII. came to the throne of Sweden he found a triple alliance had been formed against him." Give an account.

7. Give a brief account of the Seven Years' War and show its effects upon Austria, Prussia, France, England.

8. Give an account of the reign of Emperor Joseph II.

9. Write short account of French Revolution, with dates of most important events.

10. Schleswig and Holstein ceded to Austria and Prussia (1864). Give history of dispute which led to this.

11. War between Austria and Prussia 1866. What caused it and what were its results.

12. Crimean War. Its effects upon Europe.

13. The Egyptian Question from 1874. Write notes.

14. 1871. Proclamation of the German Empire. How was it brought about?

POLITICAL ECONOMY.

Examiner..... PRESIDENT FOREST.

TIME : THREE HOURS.

1. Classify as productive or unproductive the following labourers : Soldiers, Confidenciers, Musicians, Artists, Lawyers, Teachers, Merchants, Bankers.

2. A owes Dowdall debentures ; B, Provincial debentures ; C, City debentures ; D, mortgages on land ; E, bank deposits receipt. In summing up the wealth of the country would you count these ? Give reason.

3. When and how does a national loan add to the capital of a country ?

4. Is it possible for a man to increase his own wealth without benefiting others ? To what extent ?

5. If the government passed a law forbidding men to accumulate more wealth than was required for comfortable subsistence, what effect would it have upon the working classes ?

6. What is unearned increment ? What proportion do you think it bears to the value created by productive labour ? Is it possible accurately to distinguish between the two ?

7. In 1859 A purchased a farm for \$3000 ; B, a city lot for \$1000 ; C, an oil painting for \$100 ; D, a collection of postage stamps for \$50. At the present time they have increased in value tenfold. Could the government justly appropriate the increased value of the one and not of the others ? Give your reasons.

8. If every class of labourers received double wages would their condition be necessarily improved ?

9. Discuss the doctrine of the Balance of Trade.

10. Mill says : "One of the commonest fallacies is, that paper currency cannot be issued in excess so long as every note issued

represents property or has a foundation of 'actual property to rest on.' Give his arguments.

11. How is the evil of low wages to be remedied? Give some of the proposed plans.
12. Write a short article for or against Protection.
13. Can a protective tariff be effective if it does not raise the price of the article protected?
14. How far does Mill justify a protective tariff?

ETHICS.

Examiner PROFESSOR SETH.

APRIL 13TH.—10 A. M. TO 1 P. M.

1. Compare the ancient and modern conceptions of the problem of Ethics, and of its relation to Politics.
2. In what sense has it been held that Morality is (a) 'original', (b) 'derivative'? Indicate your own view.
3. Sketch the history of Modern Hedonism up to Mill, emphasising its chief stages.
4. State Mill's theory of Obligation, indicate its development by later writers, and estimate its adequacy.
5. State and critically compare the accounts of Desire offered by Butler, Mill, and Green, respectively.
6. State and estimate Darwin's ethical theory, and indicate Spencer's main divergences from it.
7. Give the three forms of Kant's Categorical Imperative, and show their relation to one another.
8. Explain Aristotle's doctrine that Virtue is (a) a Habit, (b) a Mean.
9. Trace the treatment of Pleasure in Greek Ethics.

(Additional for First Class.)

2 to 5 P. M.

10. Give Plato's account of the human 'constitution,' and compare it with Butler's.
11. Trace the various elements in Aristotle's conception of Happiness, and exhibit their relation to one another.
12. Compare the views of Plato and Aristotle as to the Contemplative life.
13. In what sense does Butler hold that man is 'a law unto himself'? Compare his position with that of Kant or Green.
14. Examine Mill's account of the distinction of Quality in Pleasure. Is it original? If not, trace its source.
15. Give a summary statement and critical estimate of (a) Kant's or (b) Green's ethical theory.

METAPHYSICS.

Examiner PROFESSOR SETH.

APRIL 13TH.—10 A. M. TO 1 P. M.

1. Explain and illustrate the use of the following terms: *Ontology*, *Epistemology*, *Metaphysics*, *Deposition*, *Scepticism*, *Criticism*.
2. Trace the Dualism of Cartesian speculation, and the various attempts to account for reality without abandoning it.
3. Give Locke's view of Material Substance, and of the distinction between the Primary and Secondary Qualities. How does Berkeley criticise the latter distinction, and with what justice?
4. In what sense does Berkeley (a) deny, (b) maintain the existence of Matter?
5. State and estimate Berkeley's view of the Permanence of the External World. Compare the views of Hume and Kant on this question.
6. Give Berkeley's account of Space, and compare his view with those of Hume and Kant.
7. Compare critically the accounts of Causality offered by Locke, Berkeley, Hume and Kant, respectively.
8. In what sense may Hume be said to have "stated the problem of Metaphysics," and how does Kant generalise Hume's question? Indicate the general tenor of the Kantian answer.
9. "A consistent Sensationalism must be speechless." Explain this statement, and illustrate its truth from the history of modern philosophy.

(Additional for First Class.)

3 to 5 P. M.

1. Distinguish Descartes' three proofs of the Divine existence, and estimate their value.
2. Describe Locke's aim and method in the *Essay*, and indicate the relation of the various parts to its central purpose.
3. Give Locke's view of (a) the nature, (b) the origin, (c) the certainty, (d) the reality, (e) the degrees, and (f) the extent of human knowledge.
4. State Locke's distinction between the "Nominal" and the "Real" Essence. Why, on his view, can there be "no science of bodies"? Compare Berkeley's view on this subject.
5. Summarise the evidence for the existence of two divergent lines of thought (a) in Locke, (b) in Berkeley.
6. Give a critical estimate of Berkeley's Idealism.

LOGIC AND PSYCHOLOGY.

PSYCHOLOGY.

Examiner PROFESSOR LEAHL

THURSDAY, 26TH JANUARY, 1888.

THREE O'CLOCK.—TWO HOURS.

- Give Sir William Hamilton's classification of the Mental Phenomena, with criticisms.
- What do you understand by the Laws of Mind? Show how the two generic laws are present in, and characterize the other laws.
- Give illustrations of the Active or Practical Processes, defining them at the same time.
- What are the Laws of Association, and to what single law may they be reduced? Give examples.
- What views may be taken of Imagination? What is the distinctive character of Poetic Imagination?

FRIDAY, 27TH JANUARY, 1888.

THREE O'CLOCK.—TWO HOURS.

- How have the Emotions been classified? What mere philosophical principle of classification may be adopted?
- Under what class may the Aesthetic Emotion come? What is the highest Emotion under the same class?
- Give the different theories of Beauty, vividness and Illustrating Allison's theory by Burke's sensible qualities of the Beautiful and Sublime, respectively.
- Give some account of the Social Emotion. State the modern theory on the subject of the Social Emotions.
- Give the contrasted Emotions, with the ground of contrast.

LOGIC.

Examiner PROFESSOR SETH.

AFTERNOON.—50 A. M. TO 1 P. M.

- How is Logic related to Psychology in respect of (a) its province, (b) its point of view?
- State the various views which have been held as to the nature of the Concept. Which seems to you the most adequate, and on what grounds?
- (a) If the proposition I is false, what follows as to A, E and O?
 (b) Convert the following propositions:
 - All are not happy that seem so.
 - Murder will out.
 - Tis only noble to be good.

- State the following argument in syllogistic form; give its Mood and Figure; and, if not in First Figure, reduce:

Epicureans are not true philosophers, for they do not hold that virtue is the chief good, and all true philosophers hold that it is.

- Construct a concrete Syllogism capable of being expressed in each of the Four Figures, and state it in each;

- State and prove the special rules of the First Figure.

- Define and illustrate the following: Infinito Species; Epichorion; Illictus Process; Ignoratio Elenchi.

- Construct a Regressive Sorites, and resolve it into its component Syllogisms.

- Test the following inferences. If correct, state syllogistically, giving Mood and Figure; if fallacious, name the Fallacy:

(a) The study of Logic is of no value, for all can reason without its aid.

(b) Light cannot consist of material particles, for it does not possess mass.

(c) He must be a learned man, for all learned men are hard students.

(d) Why should I exert myself? For it is fated either that I shall succeed or that I shall not, and in either case exertion on my part is needless.

(e) Aristotle must have been a very indolent man; for he could not otherwise have produced so many works.

(f) No form of democracy is subject to violent revolutions, for it never excludes the mass of the people from political power.

(g) Dissent always weakens religion in the people, for it acts itself in opposition to the National Church.

- Explain the Quantification of the Predicate, and the grounds on which it is advocated. With what theory of judgment is it connected, and what are its main effects on logical doctrine?

MATHEMATICS.

Examiner C. MACDONALD, M. A.

GEOMETRY.—FIRST YEAR.

APRIL 19.—50 A. M. TO 1 P. M.

- Show that the fifth and sixth propositions of Euclid Book II and the ninth and tenth of the same book are only cases of one proposition; and give an enunciation that shall in each case comprehend both.

- Enunciate and prove any one of these four propositions, and prove it by the division of the straight line.

- If a straight line be drawn from the vertex of an isosceles triangle to meet the base, the difference between the squares of this line and one of the equal sides is equal to the rectangle of the segments of the base. Prove for one figure.

- The angle at the centre of a circle is double of the angle at the circumference, standing on the same arc. Prove when the centre is outside the angle at the circumference.

5. In equal circles chords that are equal cut off equal arcs, the greater equal to the greater, and the less equal to the less.
6. If two adjacent angles of a regular polygon be bisected by lines which meet in Q, the lines drawn from Q to all the other angles bisect them.
7. If two triangles have an angle in the one equal to an angle in the other, and the sides about these equal angles proportional, then must the triangles be similar.
8. If two opposite sides of a quadrilateral inscribed in a circle be produced to meet, and also its opposite angles joined, four pairs of similar triangles are thus formed.
9. The circle that passes through the ends of the sides of a triangle and its orthocentre is equal to the circle circumscribed about the triangle.
10. If a quadrilateral be inscribed in a circle, the sum of the angles in the segments cut off by its sides is six right angles.

11. The hypothenuse of a right angled triangle is fixed; but the sides vary; show that the locus of the centre of the inscribed circle is the fourth part of the circumference of another circle; and that the square of the radius of the latter is equal to half the square of the hypothenuse.

12. "If a point so move that the difference of the square of its distances from two fixed points is constant, its locus is a straight line perpendicular to the line joining the points." Hence prove that if from a fixed point in the circumference of a circle two chords PQ and PR be drawn, and if they vary in length in such a way that $PQ^2 + PR^2$ is constant, the locus of the middle point of QR is a straight line.

GEOMETRY AND MENSURATION.—SECOND YEAR.

APRIL 16.—99 A. M. TO 1 P. M.

1. Draw two equangular parallelograms and show, without proof, how to represent by means of two straight lines the ratio of their areas.

2. The parallelograms about the diagonal of any parallelogram are similar to the whole parallelogram and to one another.

3. If V, a pencil of four lines, cut any one transversal harmonically, it cuts every transversal harmonically.

4. A line drawn through a centre of similitude of two circles cutting them, divides the circles into similar segments.

5. What is the "nine-points circle of a triangle"? Show that it is also the "nine-points circle" of the three triangles whose bases are the sides, and common vertex the orthocentre of the first triangle.

6. BCDF is a quadrilateral inscribed in a circle, BC being equal to CD. Show that $FC \cdot FB \cdot FD = BC^2$.

7. In a parabola the subtangent is bisected at the vertex.

8. The chord of contact of two tangents drawn to a parabola is bisected by the line drawn from their point of concourse parallel to the axis.

9. Show that the sum of the focal distances of any point of an ellipse is equal to the major axis.

10. If S be the focus of an ellipse, and P any point in the curve at which a tangent is drawn, cutting the directrix in Z, then SZ is perpendicular to SP.

11. Given the two sides of a triangle and the included angle 60°, 6 ft., and 30°; find the third side by one numerical process; and also the medians drawn from the angle opposite to it. ($\sqrt{3} = 1.732$).

12. A hemisphere and a right cone are of the same material and the same weight. The area of the base of the cone is $\frac{1}{3}$ the area of the base of the hemisphere. Prove that the height of the cone is 4 times the radius of the hemisphere.

ALGEBRA.—FIRST YEAR.

APRIL 16.—10 A. M. TO 1 P. M.

1. Show that, if $a^2 + b^2 = 1$, $a + b\sqrt{-1}$ and $a - b\sqrt{-1}$ are the reciprocals of each other; and write out the powers of $+V{-1}$ and $-V{-1}$ as far as the 8th, with any relative remarks that occur to you.

2. When a fraction, as $\frac{a}{\sqrt[3]{\pm} \sqrt{c}}$, is to be numerically computed, show the advantage of "rationalizing the Denominator," as the first step in the process. Illustrate by an example of your own.

3. A could do a whole job in 12 days. B in 16, C in 18 days. After working at it all together for two days, B and C struck for more wages; and after a time A struck also, when $\frac{2}{3}$ ths of the job remained undone. How long had A been working alone?

4. There are two ordinary ways of solving such a pair of equations as this: $x + y = a$, and $xy = b^2$. Describe them and say which you prefer, and why.

5. Solve either of the pairs of simultaneous equations: $x^2 + y^2 = 700$, and $x + y = 8$; (2) $x^2 + y^2 = 41xy$, and $y^2 = 5xy - 4x^2$.

6. Given $x^2 + px + q = 0$. Find the several conditions that the roots are (1) equal, (2) real but unequal, (3) imaginary; and if a and β are the roots, find an expression for $\frac{1}{\alpha^2} + \frac{1}{\beta^2}$.

7. Show that $\begin{vmatrix} m_1 m_2 m_3 \\ b_1 b_2 b_3 \\ m_1 m_2 m_3 \end{vmatrix} = m \begin{vmatrix} a_1 b_1 c_1 \\ a_2 b_2 c_2 \\ a_3 b_3 c_3 \end{vmatrix}$

and that if two adjacent columns or rows of a Determinant are the same, the Determinant = 0.

8. Show that in an Arithmetical Progression the sums of terms equidistant from the extremes is constant: state and prove the corresponding theorem for a Geometrical Progression.

9. Show that the series, $a + ar + ar^2 + \dots + ar^n$, all inf., is to the series, $a - ar + ar^2 - ar^3 + \dots$, all inf., ($r < 1$) as $1 + r : 1 - r$. Also, if any one term of an infinite decreasing Geometrical series = m times the sum of all that follow it, $r = \frac{1}{m+1}$.

10. Prove $a^2 + b^2 > ab + ac$, unless $a=0$.
 11. If $a : b : c : d$, prove $a^2c + ac^2 : b^2d + bd^2 : (a+d)^2 : (b+c)^2$.
 12. Given $x^4 + ax^3 + bx^2 + cx + d = 0$, the roots being $\alpha, \beta, \gamma, \delta$: prove $\frac{1}{\alpha} + \frac{1}{\beta} + \frac{1}{\gamma} + \frac{1}{\delta} = -\frac{a}{d^2}$; and write the equation whose roots are $= \alpha - \beta, \gamma - \delta, \delta - \alpha$.
 13. Given the equation $2x^4 - 3x - 6 = 0$. Show that one root lies between 1 and 2; and the first decimal figure of it being 7, find by the method of Horner, the root to three places of decimals.

TRIGONOMETRY AND ALGEBRA.—SECOND YEAR.

ARITH. 16.—3 TO 6 P. M.

1. Explain "circular measure," as distinguished from Gradual measure: and if an arc of 60° were the unit of angular measure, find the number of degrees, α , in an arc whose measure is $\frac{7}{12}$.

2. $\tan \theta = \tan (\pi r + \theta)$ where r is any whole number; but if $\sin \theta = \sin (\pi r + \theta)$ or $\cos \theta = \cos (\pi r + \theta)$, then must r be an even number.

3. A column stands at the top of an even slope whose gradient is 1 in 20 . At a station A the angle subtended by this column is α and I see further down the slope at B , which is in the same straight line with A and the middle of the base of the column the angle subtended by it is β . Give all the steps, with accompanying explanations, for determining the height of the column.

4. From the formulae for $\sin (A+B)$ and $\cos (A+B)$ find expressions for $\cos (A-B)$, $\cot (A+B)$, $\csc 2A$, $\sin 3A$; and from one of these deduce $\tan 90^\circ$.

5. Show that $\sin (n+1)A = \sin (n-1)A + 2 \sin A \cos nA$: find the similar formula for $\cos (n+1)A$; and describe carefully any useful application you know of one of these.

6. Starting from the fundamental formula for $\cos A$ in terms of the sides of the triangle ABC, find $\cos \frac{A}{2}$; and show that if the triangle is isosceles, $b=c$, the formula reduces to $\sqrt{\frac{b^2-a^2}{4}}$.

7. Prove that the radius of the circumscribed circle touching the side $\frac{8}{x-a}$: and show that the distance between the point where it touches this side and the point where the inscribed circle touches it = the difference of the other two sides.

8. From the relations of a spherical triangle to its polar triangle, deduce $\cos A + \cos B \cos C = \frac{\cos A + \cos B \cos C}{\sin B \sin C}$; and illustrate Napier's rule of Circular Parts by two cases chosen by yourself, one for each subdivision of the rule.

9. Show that the binomial expansion of $(a+x)^n$ is finite when n is a positive integer, and find the greatest coefficient when n is odd; that it is infinite in all other cases. Does it ever become unintelligible? Illustrate your answer.

10. A person who owns an annuity A which has n years to run desires to exchange it for a perpetual annual income A , that shall commence after q years. Show that the actuary's formula is

$$A_t = \frac{A}{R^{n-q}} (R^n - 1).$$

11. In what scale of notation is the number 829 = 999 in the common scale.

12. Show that every prime number must be adjacent to a multiple of 6, i.e., must be of the form $6n \pm 1$.

ADDITIONAL MATHEMATICS—SECOND YEAR.

ARITH. 16.—3 TO 6 P. M.

1. Give the construction of the problem, To draw a perpendicular to a given plane from a given point without it; also draw a plane parallel to a given plane through a given point without it.

2. Starting from the proper assumptions, prove

$$\sin x = x - \frac{x^3}{3!} + \frac{x^5}{5!} - \dots \text{ &c. Hence}$$

3. If c be the length of the chord of a small arc of a circle, and ϵ that of its half, prove that the length of the arc = $\frac{8c - c}{3}$ nearly.

4. Sum n terms of the following two series :

$$(1) 1.1^2 + 2.2^2 + 3.3^2 + \dots ; \quad (2) \frac{1}{1 \cdot 3 \cdot 5} + \frac{1}{3 \cdot 5 \cdot 7} + \frac{1}{5 \cdot 7 \cdot 9} + \dots$$

Also sum the latter to infinity.

5. Show that $\tan (\theta + h) - \tan \theta \approx \sec^2 \theta$; where h does not approach very nearly to $\frac{\pi}{2}$, and h is the measure of a very small angle, not greater than one minute of arc.

$$6. \text{ If } \cos (x-1) - \cos \frac{-1-x+1}{\sqrt{x^2+2x+2}} = \frac{\pi}{6} : \text{ find } x.$$

7. There are four common dice in a bag and one unexamined one whose faces are all marked one; but in other respects they are all the same. A die is taken out at random, not examined, and, thrown three times, turns up one each time. Show that it is 54:1 that this is the oddly marked die.

8. The roots of the equation $x^2 \pm 1 = 0$, are in Geometrical Progression. In showing this, take either sign you please, not both: and take a both even and odd.

PHYSICS.

Examiner J. G. MACGREGOR, D.Sc.

THIRD YEAR CLASS.

APRIL 18TH.—10 A.M.—1 P.M.

*N. R.—Questions marked with an asterisk have the higher values.**A.—Three of the following:*

- (1). The speed of a body which starts from rest, increases uniformly at the rate a . Show that after having moved through a distance s , it will have gained a speed equal to $\sqrt{2as}$.

(2). Enunciate and prove the law of the composition of forces.

- *(3). It has been said that if, as the Third Law of Motion asserts, in the case of a horse drawing a canal-boat, the horse were pulled back by the boat with a force equal to that by which the boat is pulled forward by the horse, there could be no motion. Criticise this statement and explain fully what determines the motion of the horse and of the boat respectively.

- *(4). State the Law of the Conservation of Energy. To illustrate it, show that if a stone is tossed vertically upwards with an initial velocity of 200 feet per second, its energy (including both kinetic and potential) will have the same value after 4 and after 8 seconds respectively. (Take g as being 32 feet per sec. per sec.)

- *(5). Describe the Common Balance.—If it is properly made, and if when the pans are loaded the beam is horizontal, show that the weights of the loads in the pans must be equal.

B.—Seven of the following:

- *(7). What is meant by the presence of a pair of a fluid? Show that in the case of a heavy liquid, the pressure at any point is greater than the pressure at the upper surface by the weight of a cylinder of the liquid whose cross section has an area unity and whose length is the distance of the point from the upper surface. How would you verify this result experimentally?

- (8). Define the structure of the Mercury Barometer, and show (a) that it enables us to measure the pressure of the atmosphere, and (b) that it may be used to measure the height of a mountain.

- *(9). Point out what is inaccurate in the following statement, made by Huxley in his Introductory Science Primer: "As soon as this upper water" (in a vessel of water whose temperature was being gradually lowered) "cooled even so little below 32° F. , a film like glass would form on its surface by the conversion of the coldest fluid water into solid water or ice." What should Huxley have said?

- (10). How would you show by experiment (a) that bars of metal increase in length as their temperatures rise; (b) that the thermal expansion of masses of metal is the same in all directions, and (c) that between 0° and 4° C. water contracts as its temperature rises?

- *(11). (a) Heat is a form of energy. (b) Heat is the kinetic energy of the molecules of a body. (c) Heat is a mode of motion. (d) Heat is an imponderable substance.—In the case of each of these propositions answer the following questions: (a) Is it necessarily false? (b) Has it been proved, and if so, how? (c) Is it an hypothesis? If so, has it been shown to be false, and in that case, how?

*(12). A small object is so placed that the axis of a double convex lens passes through it, and its distance from the lens is greater than the focal length of the lens. Trace the course of the rays by which the image will be formed, and show that the image will be real and inverted.

*(13). How may the prism be used to analyse the light of an incandescent body? Describe fully the spectrum of light from the sun, and account for the dark lines in it.

(14). Describe experiments proving that the pitch of a musical note rises as the rapidity of the oscillations of the sounding body increases. Hence show that if sound is propagated by waves in the atmosphere, the waves of a high note must be short, those of a low note long.

*(15). Show that two equal and similar waves moving in opposite directions and with equal velocities along a line of particles must give rise to a standing wave, and explain (a) the formation of nodal lines in a vibrating plate, and (b) the fact that a series of notes can be obtained from any given pipe.

(16). Given a piece of sealing-wax, a piece of fur, a pith ball suspended by a silk string, and an electrified body; how will you determine whether this body has a positive or a negative charge? If a gold leaf electroscope were substituted for the suspended pith ball, how would you make the determination?

*(17). What conditions must be satisfied that a current may flow in a circuit of conductors? And how are the conditions satisfied (a) when a frictional machine is worked, sparks passing from its conductor to a conductor in contact with the earth, (b) in the galvanic circuit, and (c) in the case of thermoelectric currents?

FOURTH YEAR CLASS.

APRIL 18TH.—10 A.M.—1 P.M.

N. R.—Answer any ten questions. Those with an asterisk have the higher values.

(1). Define declination and right ascension. What observations would you make to determine them? With what instruments? The observations made, how would you make the determinations?

*(2). Given that the sun attracts a planet with a force inversely proportional to the square of the distance between them, shew that the path of the planet about the sun must be a conic section.

(3). Show that a tension parallel to any one line in a body and an equal pressure parallel to any line at right angles to it are together equivalent to a shearing stress of the same value on planes cutting these lines at angles of 45° .

(4). Define elasticity of figure, elasticity of volume, Young's modulus, and modulus of general rigidity. Express Young's modulus in terms of the elasticities of figure and volume.

*(5). Show that at any point of a heavy fluid the rate at which pressure increases with distance in a direction normal to surfaces of equal pressure is equal to ρg , where ρ is the density of the fluid at the point and g the acceleration of a falling body, pressure being measured in absolute units.

"(6). Show that, if P be the excess of the pressure inside over that outside at any part of a soap-bubble, T the surface tension of a solution of soap bounded by air, and R and R' the radii of curvature of sections of the bubble, at the part referred to, made by perpendicular planes, $P = 2 T (R + R') / RR'$.

(7). Water being in contact with glass and air (as for example, when a glass rod is partially immersed in water), upon what will the angle of contact depend? How would you determine its magnitude experimentally?

(8). Describe generally the isothermal diagram of Carbonic Acid; and explain what is meant by its critical temperature.

"(9). How are the adiabatic lines of a substance related to its isothermal as to their general course? Given this relation, show that an adiabatic compression must lower the temperature of a substance whose coefficient of expansion is negative.

"(10). Prove that the rate of increase of entropy with pressure, temperature being constant, is equal to the rate of decrease of volume with temperature, pressure being constant.

"(11). Discuss any method of determining the ratio of the specific heats.

"(12). How may it be concluded from the fact that there is no electrical force inside a conductor, that the law of electrical attraction is that of the inverse square of the distance.

(13). Show that the charges at the ends of a tube of force, extending from one electrified body to another, must be equal and of opposite sign. Hence prove that if a charged body be surrounded by a conductor its charge must be equal to that induced in the conductor. Describe the experiment by which Faraday obtained this result.

"(14). Apply the method of electrical images to prove that the density of the electrification at any point of a special conductor, kept at zero potential, due to a charge at a point outside it, is inversely proportional to the cube of the distance between the points.

"(15). Find the capacity of a condenser consisting of parallel plates very close together; and determine the attraction between the plates when charged to given potentials.

(16). How would you determine the electrostatic force and the resistance of a given galvanic cell?

(Additional for First Class.)

APRIL 26TH.—30—13.30 A. M.

N. B.—*Any four of the following.* Those with an asterisk have the higher value.

*1. Explain the action of the lead pedal in the piano-forte; and show how the quality of the notes of that instrument depend upon the mode and place of percussion.

2. Show that a sound wave travelling in an organ pipe will be reflected on reaching the end, whether the end be stopped or open. What difference will there be in the reflection in the two cases?

*3. Explain the occurrence of discords in the case of musical notes which contain no overtones.

*4. Show that the multiplication and division of "vibration fractions" correspond to the addition and subtraction of intervals; and that, of the two intervals called the Fourth and Fifth, each is the inverse of the other.

*5. Give some account of temperament.

DYNAMICS.

APRIL 26TH.—3 to 6 P. M.

N. B.—*Answer only ten questions.* Those with an asterisk have the higher value.

(1). Given the displacement of a point P relative to a point Q , and that of Q relative to a third point O , find that of P relative to O .

(2). A point moving with uniform speed in a circular path passes from one end of a diameter to the other in 10 seconds. The radius being 30 cm., find (a) the mean speed, (b) the mean velocity, (c) the instantaneous velocity at any instant.

(3). The hodograph of a point moving in an ellipse in such a way that the sum of its velocity about the centre is constant, is a similar ellipse.

(4). Find the range of a projectile on a horizontal plane, the magnitude and direction of the initial velocity being given; and show that had the direction been different the range might still have been the same.

(5). A moving point has a velocity of 1 ft. per sec. when at a distance of $r^{\frac{2}{3}}$ feet from a fixed point in its line of motion towards which its acceleration is directed, its acceleration being everywhere numerically equal to its distance from that point. After what time will it be at a distance of 1 ft.?

(6). A rigid body with one point fixed undergoes two successive rotations. Show that the same displacement may be given it by a single rotation, and find the axis of this rotation.

(7). Find the resultant of two angular velocities about parallel axes.

(8). Find the dimensions of the derived unit of force. The unit of density being that of water and the units of time and mass 1 minute and 1 hundred-weight respectively, find the magnitude of the derived unit of force.

(9). A particle slides in a vertical plane down the smooth edge of a circular disc with axis horizontal. Show that if it start from rest at the highest point, it will quit the disc after describing an arc subtending at the centre an angle whose cosine is $2/3$.

(10). Show that a particle will be in equilibrium if acted upon by three forces represented in direction by the perpendiculars from the angular points of a triangle on the opposite sides, and in magnitude by the reciprocals of the lengths of those perpendiculars.

(11). Show that the greatest velocity an agent working at the rate R can produce in a body against an opposing force F is R/F .

(12). Apply the law of Energy to find the speed of the bob of a simple pendulum which has swung from a given extreme position through a given angle.

*[13]. Establish the law of the Conservation of Energy for an extended system.

*[14]. A thin rod is movable about a fixed point. Find the centre of percussion.

*[15]. A heavy body is attached to the end B of a weightless rod A.B. A string fastened to the end B passes over a smooth fixed peg C, through a ring at the end A of the rod, and supports a second heavy body. Determine the position of equilibrium.

(Additional for First Class.)

APRIL 1911.—13—III. 30 A. M.

N. B.—Any four of the following. Those with an asterisk have the higher values.

*1. A body is subjected to a strain which is of such a nature that the distances of pairs of points so placed in the unstrained body that the lines joining them are parallel, are changed in the same ratio. Show that lines in the body which are straight and parallel before the strain are straight and parallel after the strain.

2. Define the shear and prove that it is a homogeneous strain.

*3. Prove that the complete specification of the stress at any point of a strained body requires only six numerical data.

*4. Determine the strain produced by a simple longitudinal stress, in terms of the magnitude of the stress and the elasticities of figure and volume.

*5. Show that the pressure at any point of a fluid in a static condition is the same in all directions, and that the same law holds for a fluid whose parts are moving relatively to one another, provided shearing stresses may be neglected.

CHEMISTRY.

Examiner..... PROFESSOR LAWSON.

INORGANIC CHEMISTRY.

APRIL 1911.—10 A. M. TO 1 P. M.

Five questions only to be answered. All of equal value.

1.—Compare the effects of physical forces—magnetism, light and heat upon bodies, with the effects of chemical action, and give examples. Explain what is meant by chemical force or affinity, and distinguish it from cohesion. What are molecules? atoms? Explain briefly the process of chemical combination as shown in the union of sulphur and iron.

2. The relative weights in which bodies combine are invariably and are called equivalents. Give a full explanation of this statement, with examples. In what way is the equivalent of an element determined? When two bodies unite in several proportions, the weight of one being considered constant, the weight of the other varies according to simple ratios. Explain, with examples. Give the equivalent, also the atomic numbers of the following elements: O, C, S, H.

3. What is the chemical nature of the process of Combustion, what bodies usually enter into it, and what are the ordinary products? (Give examples of slow and rapid combustion.) A combustible substance, consisting of Carbon and Hydrogen, is introduced in a burning state into each of the following gases; what takes place in each case? and what are the products of combustion, if any: H, Cl, N, O, CO, CO₂.

4. When a mixture of hydrogen and oxygen is exploded, in what proportion by volume do the two gases combine, and what is the relation between their volumes and the volume of the gas resulting from the combination? Explain the composition of Water, so as to show the number of atoms which its molecule contains. What are the ordinary dangerous impurities of well water, and how are they to be detected. What salts does sea-water contain, and from what source are they derived?

5. In what forms or combinations do the following elements occur most commonly in nature:—S, P, K, Ca, Fe, Pb, As, Sb. Explain the apparent chemical reasons for their so occurring. Enumerate the principal metals whose sulphates are: (a) insoluble in acid solutions, (b) soluble in acid, but insoluble in neutral and alkaline sols., (c) soluble in water.

6. In what form, and to what extent, does Potash exist in soils; how do you explain its presence there. In what form does it exist in the plant, and in plant ashes. In what form and to what extent does Phosphorus exist in soils. Give formula for the salt that exists in bone, and explain how it may be made soluble.

7. Give a general view of the different classes of Metallic Oxides, showing the effect of the proportion of oxygen upon the several compounds so regards their basic or acid characters, with examples. Define what is meant by the terms: Base, Acid, Salt.

8. Write concisely in words (that is, translate into plain English), without any unnecessary explanation, the exact meaning of each of the following chemical equations:—



ORGANIC CHEMISTRY.

TIME: THREE HOURS.

Five (5) questions only to be answered.

1. Carbon is said to be Tetrahedral. What does this mean? Illustrate by examples. Show in what way substitution compounds are formed from Methane. Also, in what way Hydrocarbons of the Methane Series, containing more carbon atoms than one, may be formed without losing the type CH_4 .

2. Describe the process of Elementary Analysis of an organic compound containing C, H and O, and sketch a diagram showing the apparatus used, with special regard to the relative positions of the several parts when put together. What are the probable sources of error, what precautions are necessary to ensure accuracy? State results obtained (or assume results) and give calculations showing conversion into weights of C, O and H.

3. What is the chemical constitution of an Alcohol? What are the more important Monotonic Alcohols? Describe Methyl Alcohol, Ethyl Alcohol, as regards their sources, constitution, and properties. In what way is absolute alcohol obtained?

4. Describe Acetic Acid as regards its mode of formation, constitutional relation to Alcohol, properties, and the principal salts which it forms, (Acetates). How is Ethyl Acetate prepared?

5. What is the chemical constitution of Chloroform? From what materials is it usually prepared? Describe the process, and explain in a general manner the probable re-actions that take place, as suggested by your knowledge of the chemical affinities of the elements or radicals involved.

6. Compare the chemical compositions of tallow, common soap, glycerine, palmitine, nitroglycerine, dynamite.

PRACTICAL CHEMISTRY—ADVANCED COURSE.

TIME: THREE HOURS.

1. Find the specific gravity of the Water sample A (Mineral Water), and describe the operation fully, noticing every precaution necessary to ensure accuracy. Give results obtained, with any previous calculations, including deducted weight of bottle, (a previously unweighed bottle without counterpoise to be used).

2. Describe in detail the ordinary method of analysis of an Iron Ore, with necessary calculations. Find by analysis the amount of metallic iron in the sample B. State the several processes to which you have subjected it, and the results obtained.

PRACTICAL CHEMISTRY—ELEMENTARY COURSE.

TIME: THREE HOURS.

1. Find (1) one Acid, and (2) one Base in each of the Solutions, numbered $\frac{1}{1}$, $\frac{2}{2}$, $\frac{3}{3}$, &c., to $\frac{12}{12}$, or in as many of them as you can in the time allowed.

[The Bases and Acids were the following:

| Base. | Acid. | Base. | Acid. |
|------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-------|
| $\frac{1}{1}$ =Argentic Oxide. Nitric. | $\frac{1}{2}$ =Bismuthic Oxide. Hydrochloric. | $\frac{2}{1}$ =Bismuthic Oxide. Hydrochloric. | |
| $\frac{2}{1}$ =Fluorine Oxide. Acetic. | $\frac{2}{2}$ =Cupric Oxide... Sulphuric. | $\frac{2}{3}$ =Cupric Oxide... Sulphuric. | |
| $\frac{3}{1}$ =Plumbic Oxide. Acetic. | $\frac{3}{2}$ =Ammonia..... Oxalic. | $\frac{3}{3}$ =Ammonia..... Oxalic. | |
| $\frac{4}{1}$ =Strontia..... Nitric. | $\frac{4}{2}$ =Distilled Water. | $\frac{4}{3}$ =Distilled Water. | |
| $\frac{5}{1}$ =Barrys..... Nitric. | $\frac{5}{2}$ =Magnesia..... Sulphuric. | $\frac{5}{3}$ =Magnesia..... Sulphuric. | |
| $\frac{6}{1}$ =Platinic Oxide. Hydrochloric. | $\frac{6}{2}$ =Lime..... Hydrochloric. | $\frac{6}{3}$ =Lime..... Hydrochloric. | |
| $\frac{7}{1}$ =Arsenious Oxide. Hydrochloric. | $\frac{7}{2}$ =Soda..... Carbonic. | $\frac{7}{3}$ =Soda..... Carbonic. | |
| $\frac{8}{1}$ =Lime..... Hydrochloric. | $\frac{8}{2}$ =Strontia..... Nitric. | $\frac{8}{3}$ =Strontia..... Nitric. | |
| $\frac{9}{1}$ =Mercuric Oxide. Hydrochloric. | $\frac{9}{2}$ =Strontia..... Hydrochloric. | $\frac{9}{3}$ =Strontia..... Hydrochloric. | |
| $\frac{10}{1}$ =Potass..... Hydrochloric. | $\frac{10}{2}$ =Sulphuric. | $\frac{10}{3}$ =Sulphuric. | |
| $\frac{11}{1}$ =Mercurous Oxide. Nitric. | $\frac{11}{2}$ =Magnesia..... Sulphuric. | $\frac{11}{3}$ =Magnesia..... Sulphuric. | |
| $\frac{12}{1}$ =Cupric Oxide... Sulphuric. | $\frac{12}{2}$ =Distilled Water. | $\frac{12}{3}$ =Distilled Water. | |
| $\frac{13}{1}$ =Bismuthic Oxide. Hydrochloric. | $\frac{13}{2}$ =Ammonia..... Hydrochloric. | $\frac{13}{3}$ =Ammonia..... Hydrochloric. | |
| $\frac{14}{1}$ =Alumina..... Sulphuric. | $\frac{14}{2}$ =Potass..... Chloric. | $\frac{14}{3}$ =Potass..... Chloric. | |
| $\frac{15}{1}$ =Nickel Oxide... Sulphuric. | $\frac{15}{2}$ =Barrys..... Nitric.] | $\frac{15}{3}$ =Barrys..... Nitric.] | |
| $\frac{16}{1}$ =Alumina..... Sulphuric. | | | |

SESSIONAL EXAMINATIONS.

Ixxix

2. Write out carefully the results of your determinations. In any case of failure, or uncertainty, point out probable or possible cause.

Standing of candidates will be calculated from number of accurate determinations, minus number of erroneous ones,—due value being allowed for explanations given under question 2.

BOTANY.

Examiner PROFESSOR LAWSON.

APRIL 1861.—20 A.M. TO 1 P.M.

Five questions only to be answered.

1. Give a general description of a vitally active Vegetable Cell, noticing particularly (a) the structure, nature and functions of its protoplasm, (b) the Cell Wall, its composition, special modifications, lignification and mineralization, (c) plastids, (d) protein granules, (e) starch, (f) crystals.

2. Compare, as regards their form and structure, (a) parenchyma cells, (b) epidermal cells with their trichomes and stoma, (c) cork cells, (d) wood cells, (e) spiral and dotted vessels or ducts, (f) bast cells, (g) collenchyma cells, (h) latex cells,—and classify them.

3. Give a description of the modes of arrangement of the several tissue elements into tissues, of the tissues into systems, and the systems into organs.

4. Give a detailed account of the Circulation of Protoplasm in cells, Rotation, Amorphous movement, relations of protoplasmic movements to heat (giving optimum, maximum and minimum temperatures), continuity of protoplasm.

5. Relations of the Plant to the soil, absorption, ash constituents and their offices; transfer of water through the plant; compare transpiration and evaporation, and static effects of the former upon the plant, the air, and the soil.

6. Describe fully the process of Assimilation, or appropriation of carbon by the plant, describe the assimilating system of the plant, noticing fully the essential constituent of the assimilative cells, the raw materials required for assimilation, effects of light, Briefly, appropriation of Nitrogen by the plant.

7. Transmutation or change of organic matter in the plant. Respiration. Classify principal organic products of the plant.

8. Give a sketch of the grouping or classification of plants into the larger groups, distinguished by the absence or presence of true seeds, the nature of the embryo, structure of the stem, venation of leaves, number of parts in the floral verticil, position and mutual relations as regards adhesion or separation of the ovule, stamens, petals and ovary, the presence of a spadix, and the texture of the floral envelopes (whether petaloid or glumaceous).

9. Give a brief account of each of the following Natural Orders, pointing out the most important characters by which they are distinguished.—Cruciferæ, Umbelliferæ, Leguminosæ, Compositæ, Coniferae.

10. Give an account of each of the following orders, with examples, and point out their essential distinctive characters:—Liliaceæ, Amaryllidaceæ, Trilliaceæ, Araceæ, Gramineæ.

EXAMINATIONS FOR HONOURS.

L - HONOURS IN MATHEMATICS AND PHYSICS.

MATHEMATICS.

Examiner..... C. MACDONALD, M.A.

I.

TRIGONOMETRY AND ANALYTICAL GEOMETRY.

APRIL 31.—10 A.M. TO 1 P.M.

1. Either of the following Problems. (1) Given $\cos(A-C)\cos B = \cos(A-B+C)$: to prove the tangents of A, B and C in Harmonical Progression. Or (2) given that the sines of A, B, C are in Arithmetical Progression, to prove that $\tan \frac{A}{2}, \tan \frac{B}{2}, \tan \frac{C}{2}$ are also in A.P.

2. Given $\sin \theta = m \tan \theta$, and $\sin \theta = n \cot \theta$: prove

$$\cos^2 \theta = mn, \frac{n^2 + 1}{m^2 + 1}.$$

3. A rectangular field is twice as long as it is broad, and the distances of a tree in it from three corners are a, b, c respectively. Find an equation for determining the sides.

4. Take an exponential expression for $\sin \theta$, and hence express $\sin^n \theta$ in a series of descending multiples of θ , when n is even.

5. Resolve $x^{2n} - 2x^n \cos \theta + 1 = 0$ into Quadratic factors, and apply the result to decompose similarly $x^{2n} - 2x^n x^n \cos \theta + a^{2n}$, when $\theta \neq \pi$.

6. From B, the end of the diameter of a circle, measure off n arcs, BC, CD, DE, &c., all equal to each other, and from C, D, E, &c., draw chords to the other end of the diameter: then, if the first chord be

$$x + \frac{1}{x}, \text{ the } n^{\text{th}} \text{ will be } x + \frac{1}{x^n}.$$

7. Show that $x \cdot \frac{x^n - 1}{x - 1} = x^{\frac{n+1}{2}} \cdot \frac{x - x^{-\frac{n}{2}}}{x^{\frac{1}{2}} - x^{-\frac{1}{2}}}$: and use this knowledge

in summing to n terms the series $(\cos \theta + \sqrt{-1} \sin \theta) + (\cos \theta + \sqrt{-1} \sin \theta)^2 + (\cos \theta + \sqrt{-1} \sin \theta)^3 + \dots$.

8. Deduce, from your knowledge of the theory of Equations, stating any objections if you have them, that

$$\cos \theta = \left(1 - \frac{4 \theta^2}{\pi^2}\right) \left(1 - \frac{4 \theta^2}{3\pi^2}\right) \left(1 - \frac{4 \theta^2}{5\pi^2}\right) \dots \text{ and prove, by the aid}$$

of the calculus, that $\frac{1}{4} \tan \frac{\theta}{2} = \frac{\theta}{\pi^2 - \theta^2} + \frac{\theta}{3\pi^2 - \theta^2} + \frac{\theta}{5\pi^2 - \theta^2} + \dots$.

9. Given the latitudes of the place and the sun's altitude and declination: to find the hour of the day (solar time).

10. If $ax^2 + bx + cy^2 = 1$ be cut by the line $mx + ny = 1$: show the meaning of $mx^2 + bx + cy^2 - (mx + ny)^2 = 0$; invent a problem which this equation would enable you to solve. Also adapt the method to the general equation, $ax^2 + bx + cy^2 + dx + ey + f = 0$.

11. If $a = 0, \beta = \phi, \gamma = 0$ be the equations to the sides of the triangle ABC, show that the equation to the line joining the centres of the inscribed and circumscribed circles is, $a(\cos B - \cos C) + \beta(\cos C - \cos A) + \gamma(\cos A - \cos B) = 0$.

12. Investigate the condition that the lines, $ls + mw + nv = 0$, $lu + mv + nw = 0$ may be at right angles to each other.

II.

ANALYTICAL GEOMETRY AND CALCULUS.

APRIL 31.—8 TO 6 P.M.

1. Find the polar equation to the line joining the points whose polar co-ordinates are (r_1, θ_1) and (r_2, θ_2) . What does the equation become when one of these points is the origin? and what is the condition that the two points given and the third point (r_3, θ_3) may be in the same straight line?

2. Deduce the equation to the tangent of the ellipse or hyperbola in terms of the angle it makes with the axis of x from considering the ultimate position of the secant $y = mx + c$.

3. In either of the above curves, prove that the rectangle of the perpendiculars on the tangent drawn from the foci is equal to the square of the minor or conjugate axis.

4. Chords are drawn through the focus of an ellipse at right angles. Their segments are r, r_1 and ρ, ρ_1 . Prove $\frac{1}{r} + \frac{1}{r_1} + \frac{1}{\rho} + \frac{1}{\rho_1}$ is constant.

5. Explain the "eccentric angle" in the case of the ellipse: and prove that if α be the eccentric angle $\frac{x}{a} \cos \alpha + \frac{y}{b} \sin \alpha = 1$ is the equation to the tangent to the ellipse.

6. If any straight line be drawn cutting a hyperbola and its asymptotes, the intercepts on it between the asymptotes and the curve are equal. Prove this simply by drawing a tangent to the curve parallel to the line.

7. If in the reduction of the general equation, $ax^2 + bx + cy^2 + dz = 0$, it turns out that $b^2 = 4ac$, by what steps do you proceed to the inference that the locus is a parabola?

8. Show by considering the points at which the inscribed circle of a triangle, opposite angle A, touches the sides, that $\cos \frac{A}{2} + \sin \frac{B}{2} \sqrt{3} + \sin \frac{C}{2} \sqrt{3} = 0$ is the equation of this circle: $\alpha = 0, \beta = 0, \gamma = 0$ being the equations to the sides.

9. Lines are drawn from the vertex of a parabola making angles α and β with the axis, and meeting the curve in P and P' . Prove that PP' is divided by the axis in the inverse ratio of the tangents of these angles.

10. Show that McLaurin's Theorem for the expansion of $f(x)$ is only a case of Taylor's Theorem.

11. What are the circumstances in which Taylor's Theorem is said to "fail"? Taylor's Theorem needs Cox's or Lagrange's to complete it; and what is the principle on which Cox's demonstration depends?

III.

DIFFERENTIAL AND INTEGRAL CALCULUS.

APRIL 19.—19 A. M. TO 1 P. M.

1. An ellipse is made to revolve (1) round its major axis; (2) round its minor axis. Get the greatest cylinder out of each of the solids so formed, the axis of the cylinder coinciding in each case with the axis of revolution, and compare their volumes.

2. If u and v be such a function of x , prove that

$$\frac{d^k}{dx^k}(uv) = \frac{d^ku}{dx^k} + n \frac{d^{k-1}u}{dx^{k-1}} \frac{dv}{dx} + \dots + kuv, \text{ after the analogy of the binomial theorem. (Leibnitz's Theorem.)}$$

3. If $u = (\sin^{-1} x)^2$ prove $(1-x^2) \frac{d^2u}{dx^2} - x \frac{du}{dx} - 2 = 0$; and find an expression for $\frac{d^3u}{dx^3}$.

4. Show that if a straight line cut two axes of reference in such a manner that the product of the intercepts of them is constant, its envelope is a hyperbola.

5. Write the tests for concavity and convexity of a curve. (1) in rectangular co-ordinates, (2) in polar co-ordinates; and deduce from the expression for Radius of Curvature, that in general at a point of inflection an infinitesimal portion of the curve is a straight line.

6. If $r\theta=a$ be the equation to a curve, show that its polar subtangent is constant; and if $r^2=a^2 \cos 2\theta$, prove $r^2=a^2 p$, where p is the perpendicular from the pole on the tangent.

7. Given the curve $y^2 = (x-a)\sqrt{x-1}$: if $a < b$ there is a conjugate point; find if there are asymptotes.

8. Show methods of integrating any two of the following expressions:

$$\int \frac{1}{x^2 \sqrt{ax^2 + bx + c}} dx, \int x \sin kx dx, \int \frac{1}{a+b \cos x} (a>b), \int \frac{x^n}{\sqrt{1-x^2}},$$

$$\int \frac{\cos^n \theta}{\sin^n \theta} d\theta$$

9. Show that $\int \frac{x^m}{\sqrt{2ax-x^2}} dx = \frac{1.3.5 \dots (2m-1)}{1.2.3 \dots m} x^m$.

10. Find the area of one loop of the lemniscate ($r^2=a^2 \cos 2\theta$): and shew the length of the curve in $a^2 \int (\cos 2\theta)^{-\frac{1}{2}}$.

11. What is a "pedal curve"? Explain 1st pedal, 2nd pedal, &c. Show that the 1st pedal of a circle with respect to the end of a diameter is a $(1+\cos \theta)$. (This can be done without the aid of the calculus.)

MATHEMATICAL PHYSICS.

Examiner..... J. G. MACGREGOR, B. Sc.

APRIL 19.—19 A. M.—1 P. M.

N. B.—Answer only ten questions. Those with an asterisk have the higher value.

*(1.) A point moves in a plane curve. Show that the direction cosines of the tangent at the point (x, y) , with respect to the x and y axes respectively, are $\rho \frac{dy}{dx}$ and $-\rho \frac{dx}{dy}$, ρ being the radius of curvature at (x, y) .

(2.) Show that if a point move under an acceleration perpendicular to the direction of its motion, its speed must be uniform.

(3.) Obtain analytically the law of the composition of angular velocities.

*(4.) Show analytically that the attraction of a uniform spherical shell on a particle outside it, is the same as it would be, if its mass were condensed in its centre.

*(5.) From a given point on the axis of y , a particle of given mass is projected with a velocity of given magnitude in a line parallel to the x axis (the axes being rectangular). It is acted upon by a force proportional to its distance from the origin of co-ordinates and directed towards that point. Find the equation to the path of the particle.

(6.) A particle is moving with a simple harmonic motion under a force which when expressed in pounds is equal to k times the distance (in feet) of the particle from the centre of force. Find the work done during the motion of the particle from a distance of a foot to a distance of 5 feet.

*(7.) Show that throughout a field of force due to an attracting mass of finite volume, the differential coefficients of the Potential are continuous.

*(8.) Prove Green's Theorem; and apply it to determine the surface integral of normal attraction over a surface enclosing a given attracting mass.

(9.) Obtain equations expressing the rate of change of angular momentum of a system of particles (m) about any axis fixed in space, and (m') about any axis through the centre of mass, in terms of the moments of the external forces about that axis.

*(10.) Find the radius of gyration of a semi-circular disc of uniform thickness and of density varying directly as the square of the distance

from the centre, about an axis normal to its plane and through any point in the straight portion of the perimeter.

(11.) Obtain the equations of motion of a rigid body morable about a fixed point; and show how they are simplified in the case in which the momental ellipsoid of the body at the fixed point is a sphere.

(12.) Deduce the equation of continuity generally, and apply it (a) to the case of a liquid, (b) to the case of a liquid enclosed in a rigid tube of uniform bore, and (c) to the case of a liquid whose motion is differentially irrotational.

(13.) Find the rate of efflux of a liquid through a small orifice in a vessel which is kept filled to a given height.

(14.) Prove that the rate at which the pressure of a substance varies with its temperature, when its volume is kept constant, is equal to the quotient of the mechanical equivalent of its latent heat of dilatation by its temperature, temperature being specified in terms of Thomson's absolute scale; and apply this result to show that when an ideal gas is compressed at constant temperature, the energy expended in the compression is wholly converted into heat.

(15.) Show that the coefficient of elasticity of an ideal gas kept at constant temperature is numerically equal to the pressure, and that in the case of an ideal gas whose volume is changed adiabatically it is equal to the product of the pressure into the ratio of the specific heat of constant pressure to the specific heat at constant volume.

II.—HONOURS IN MENTAL AND MORAL PHILOSOPHY.

LOGIC.

Examiner PROFESSOR LYALL, LL. D.

TIME: THREE HOURS.

1. What is Mill's account of the reasoning process? Whence does Sir Wm. Hamilton differ from Mill, and what is Mill's quarrel with Hamilton in regard to the Extensive Syllogism?

2. What is our contention in regard to true reasoning? Is the generalisation a record we consult, after having once made it, or how are we to regard it? How does this save the Syllogism from a charge of being petitio petitorum?

3. What do you understand by the Figures of the Syllogism? What is the special use of the Third Figure?

4. How is the Third the generalising Figure, or how is the generalizing process founded upon it?

5. Show how the Formal Fallacies are just violations of the rules of the Syllogism. What are the Material Fallacies? Give an example of any one of them.

6. Distinguish Inductive from Deductive Logic, and show what part of the process is deductive, and what part is essentially inductive.

7. Give the different stages of the inductive process, and point out where Reasoning comes in, whence the process is called *Inductive Reasoning*: a misnomer.

8. What part does Experiment perform in this process? What part Hypothesis?

9. "The planets revolve in elliptical orbits round the sun." Of what generalizing Syllogism may that be said to be the conclusion?

10. "This, that, and the other magnet attract iron: therefore all magnets attract iron." How does Sir Wm. Hamilton resolve or explain that process?

METAPHYSICS.

Examiner PROFESSOR SEGUIN.

I.

TIME: THREE HOURS.

1. Give Locke's account of our knowledge of Real Existence; and consider its consistency with his view (*a*) of the nature, (*b*) of the origin of Knowledge.

2. State and compare critically the interpretations of physical science offered by Locke, Berkeley, Hume, and Kant respectively.

3. Compare and contrast the views of Hume and Kant as to the source of "Necessity" in Knowledge.

4. Explain Kant's "Synthetic unity of Apperception," and contrast it with Descartes' "Cogito."

5. Explain the office of the Transcendental Imagination in Kant's theory of Knowledge.

6. How, according to Kant, does our Knowledge "begin with," and yet not "result from" Experience? Consider how far this distinction was recognized by Locke; and how far our view of the origin of Knowledge must affect our view of its validity.

7. With what justice may Hume and Kant respectively be regarded as founders of Agnosticism?

8. Investigate the justice of Kant's denunciation of the "Philosophy of Common Sense."

II.

TIME: THREE HOURS.

Write an Essay on the following subject:—

"Kant's Answer to Hume."

ETHICS.

Examiner PROFESSOR SEGUIN.

I.

TIME: THREE HOURS.

Write an Essay on either of the following subjects:—

(1) The Transcendental Theory of Ethics.

(2) The Evolution of Morality.

II.

TIME: THREE HOURS.

1. How are the following positions related in Bk. I. of the *Epic of Gilgamesh*:

- (a) That "Justice is the interest of the stronger."
- (b) That "Injustice is more profitable than justice."

2. Sketch the main features of Plato's Ideal State, and consider its adequacy as the realization of his ethical ideas.

3. Explain Aristotle's conception of the End of life, distinguishing especially the various elements which enter into it, and showing their mutual relation.

4. State summarily Aristotle's doctrine of Justice.

5. Investigate the psychological basis of Hedgington.

6. How, and with what success, does Sidgwick attempt to reconcile conflicting ethical theories?

7. Explain Kant's "practical" solution of the problems of "speculative" reason, and consider its value. Compare the Neo-Kantian position, as stated by Green.

8. Sketch Spencer's ethical theory, and give a critical estimate of it.

III.—HONOURS IN ENGLISH LITERATURE AND HISTORY.

ENGLISH LITERATURE.

Examiner..... W. J. ALEXANDER, PH. D.

APRIL 1914.—3½ H.—1 P. M.

I.

1. Suppose a race speaking one language and completely cut off from intercourse with other races: what would be the main and ultimate causes of change in their language? What would be the main conservative forces? Supposing the language absolutely uniform at first, under what conditions would dialects arise? What is the method historically in which dialects give way before a single norm of speech?

2. What changes in the quantity of vowels do we find when we compare Chaucer's English with early English?

3. Discuss the conjugation of the following verbs historically, explaining as fully as possible the changes they have undergone:—*lend*, *fly*, *tell*, *speak*, *lie*, *seal*, *knit*.

4. Re-write in Modern English:—

(a) As manegen digle thing sindon nærrliche to emageanwe thesige se
recere magne ænglan to be sumone 500000 on his heimcrimna mōde sall
that thes gehlyfes lātige, and on them anilde thes bē his fandige,
that bē magne hryfum ænglan næfel of lyfum. Be them wæt
wæthe cyfete to Eascholde thanc wtgan geconolen: "Tha monnes sunn,
therhþyrela thes wæg."

(b) And that was geweoden, then the bē aste, therh gehwæred
regulare, and therh lewende habben, therh rice, wæfne, and
therh gildas, wælfredas, therh bēda unigas, and therh wæt-
danas, therh bēcas, bēowulfas, and unstanwyras, and therh lyfhe-
yrthe Godes lyfhe, thesiths geweoden, salles to gōðine, and
læsianan mid eadum thanc bi secolan clypian, therh fæse fæ-
fæs gesaldan, and therh clyfilla and mænigfide synna heora eard
bi forwerdon, and syfle bi forwerden.

5. Decline *krikkter*, *wæppen* (warrior), *wiht*, *thas*: give the present indicative of *anwætan* (to grant), and *mæg*.

6. Re-write in classic West-Saxon the following from the *Ancrene Wisse*:

(a) Anh wætth ðs, and bæst hwarwe (west), hē seith, fore Loverd,
wæt monie cometh to dū ischuld mid lombes flōne.

(b) Ur dñeðewurhfe lefhi that dñh to alle wæmenn bæs verbisne,
was of dñs sp̄ke that nēhwhare inc hæll write ne frindis wē that
hō sp̄ce bēt v̄r athen.

(c) A mon tha tēttes ins p̄fane ne schulde ne ne mæhte st, hōtē
yif hit w̄re nor to hōges.

7. Tell all you know of any connection between Chaucer or his works and Italy or Italian Literature.

8. Give an abstract of the Parliament of Birds.

II.

ARMS: 12TH.—3½ H.—1 P. M.

1. Explain the following phrases, giving full notes (etymological, etc.,) on the words italicized:—

(a) I sang his sleeves *purfled* atte hood with gyre.

(b) Of poyntage he bar nether the prys.

(c) An esme and a *piper* al of silk.

(d) In danger hadde he at his own assise

The yonge gories of the dacie.

(e) The pyloun diden busines and care.

(f) They foughten frewe.

(g) I am thy opel.

(h) I have wel read in dñs Barnold the Ass.

2. Describe the scene which you conceive ought to be presented on the stage just as the curtain is about to fall at the close of *Lear*, naming the characters and supernumerary persons present,—their positions, attitudes, material surroundings, etc.

3. Describe fully the verse tests applied to Shakespeare, and the results.

4. Discuss the merits and defects of *Richard III* as a play.

5. Discuss Hamlet's relations with Ophelia.

6. Tell what you know of Ben Jonson as a man, and as a writer.

7. Write notes on:—

(a) He is franked up to fatting. (b) Like the formal vice,
Iniquity. (c) His outward show which seldom or
never jampeth with the heart.—Rich, III.

(d) It entherdes Herod. (e) Ticklē o' the were. (f) Drink
up Elid. (g) Assays of bēas.—Hamlet.

(h) The capacity of your soft cheveril conscience would
receive, if you might please to stretch it. (i) Thus
halling in the wild swē of my conscience. (j) There
was a haberdasher's wife of small wit that railed at
me till her pinked peeringer fell off her head.—

Henry VIII.

TIME: THREE HOURS.

APRIL 17TH.—8—6 P. M.

1. Discuss the question of the authorship of *Tua Nobis Kinsmen*, or, Give an analysis of the *Ecclesiastical Polity*.
2. Tell what you know of *Friar Bacon* and *Friar Buxay*, *Miror of Magistracy*, and *Shakspeare's Sometime*.
3. Quote one of Shakespeare's Sonnets; or describe Spenser's merit as a poet, illustrating as fully as you can.
4. Name the chief prose writers of the period with their principal works, briefly stating the nature and subject of each of those works and its merits and defects from the point of view of prose style.
5. Give some general statement of Bacon's philosophical ideas. Wherein did his originality and importance as a philosopher lie?
6. Give a critical account of Browning's *Cathedral* or of *Soul*.
7. Discuss Browning in so far as he is a poet who presents character objectively, illustrating what you say fully and definitely from the poems assigned.

ENGLISH HISTORY.

Examiner PROFESSOR FORSTER.

I.

TIME: THREE HOURS.

1. Give an account of the trial of Bates, the views advanced at the trial, the decision and its immediate consequences.
2. "Bancroft had accordingly presented to the Star Chamber in 1635 a series of petitions in the name of the clergy which Lord Coke has denominately artfully cited by analogy to some similar representations of that order under Edward II." Explain.
3. "The Convocation had in 1636 drawn up a set of canons on the doctrine of the king's absolute power." Give the substance of the canons.
4. Negotiations between James and the Commons for giving up the feudal revenue. Write short account.
5. Lord Coke's alienation from the court. Describes briefly.
6. Give an account of the dispute about the jurisdiction of the Court of Chancery in the time of James.
7. In 1646 "A cause happened to be argued in the Court of King's Bench wherein the validity of a particular grant of benefice to a bishop to be held in commendam came into question." Write a short account of case and principles involved.
8. "The nineteen propositions tendered to him at York in the beginning of June (1632) went to abrogate in spirit the whole existing constitution." Explain.
9. Give your views of the trial and execution of Strafford.
10. Give Hallam's views of the trial and execution of Charles I.

11. Hallam discusses the constitutional position of King and Parliament at the outbreak of the war. What are his views?

12. What was the position and strength of the Republican party at the beginning and close of the war?

13. The proposals to restore the monarchy gave rise to great constitutional difficulties. What were they? How were they solved?

14. The flight of James II. introduced grave constitutional difficulties. What were they?

II.

TIME: THREE HOURS.

1. The first Parliament of James vindicates its privileges. What were the chief points urged.

2. Give an account of the Parliament of 1621.

3. What was the result of Weston's administration of the finances?

4. Gardiner draws a comparison between Wentworth and Eliot. What are his views?

5. Why would the levying of Ship-money, without consent of Parliament, be much more reasonable on the part of Charles than it would be on the part of Victoria?

6. "We are in possession of the express letters of the Pope's agent Canis, from which we may gather with certainty the relations of Charles with Catholicism." Explain.

7. "In August, 1633, a great alteration took place in the state of the English Church." Explain.

8. Give an account of the ecclesiastical condition of Scotland, the efforts of James to establish Episcopacy, and the state of affairs during the reign of Charles.

9. What were the terms of the pacification of Berwick? How were they viewed in Scotland? What were the results?

10. In the negotiations at Uxbridge, what did the Commons demand? What was the King willing to grant?

11. In 1647, the Army made proposals to the King which he rejected. In September, 1648, the Parliament made proposals which he accepted. Whence did they differ? What proposals were most liberal to the king?

12. Were the proposals proposed by Barebone's Parliament such as would commend themselves to the English people at the present day?

13. Write an article on Oliver Cromwell. Show the difficulties of the position which he occupied. Point out the mistakes which proved so fatal to the administration. What has Carlyle to say about the massacre of Drogheda?

III.

TIME: THREE HOURS.

1. Trace briefly the relations existing between England and Spain during the reigns of James I. Show the motives of both in proposing alliance, and causes which led to war.

2. 1612, Princess Elizabeth betrothed to the Elector Palatine. What motives led to the match? What other Prince sought her hand?

3. When the Bohemians sought James' help in aid of the Elector Frederick, "King James came now face to face with the greatest question of his life, which summed up and brought to light, so to speak, all the cross purposes and political aims among which he had long moved." Explain.

4. The Parliament of 1624 differed wholly from James on foreign policy.

5. In regard to movements of Mansfield's army James and Richelieu each sought to accomplish his own purposes. What were they?

6. England now suddenly at war with Spain and France together (1627). "The steps by which this result had been brought about throw an amusing light on the capacity of the young King and his Minister," Explain.

7. In 1630 Charles made peace with Spain. What were the terms of the treaty?

8. John Taylor was sent to Vienna to protest against the provisions of the treaty (Prague), and to bring the Emperor to another determination. What came of Taylor's mission?

9. How did the war in England affect the French in 1645-8?

10. In July 1652 war was declared against the Dutch. What was the cause?

11. In April 1654 Peace with Holland. What led to it? What were terms?

12. What was the grand aim of Cromwell's foreign policy? How far did it succeed?

13. After a year's negotiations a secret treaty was concluded in May 1670 at Dover. What led to it? What were the terms?

14. When and how did Louis seek to influence the policy of England by payments of money?

SESSIONAL EXAMINATIONS.

FACULTY OF LAW.

EQUITY.

Examiner R. SEDGEWICK, Q. C.

TIME: THREE HOURS.

1. (a) Write a short account of the origin and growth of Chancery Jurisdiction. (b) What is meant by property in equity as distinguished from property at law? (c) Distinguish between an "equity" and an "equitable interest."

2. (a) What causes gave rise to the Statute of Uses? (b) What were its provisions? (c) Define a trust. (d) An alien may be a trustee. Treat this proposition historically.

3. (a) Show by examples that equity courts treat valid charitable trusts with special favor. (b) Illustrate by an example the doctrine of *cy pres*. (c) How does the Statute of Frauds affect trusts? (d) Distinguish between executory and executory trusts.

4. (a) There are two leading classes of resulting trusts. Discuss these. (b) Treat of the presumption of advancement. (c) Discuss the question of a trustee's renunciation.

5. Distinguish between a mistake of law and a mistake of fact, and discuss, showing each kind as a ground for rescinding a contract. (b) Distinguish between accident and mistake. (c) Equity gives relief on account of accident. Explain this jurisdiction.

6. (a) What are the remedies of a mortgagor? (b) Illustrate tacking of mortgages. (c) Consolidation. (d) Describe shortly equitable mortgages.

7. (a) What is separate estate, and how may it be created. (b) What rights has a married woman to property at law, in equity and under the Married Woman's Property Act. (c) Under what circumstances may a wife's equity to a settlement arise.

8. Describe the following: (a) Election; (b) Conversion; (c) Ademption; (d) Satisfaction; (e) Performance.

9. (a) What is meant by assets? (b) How did lands in England become liable for the debts of a deceased person, and how here? (c) Before the statute, in what order did an executor pay his testator's debts, and in what order are they paid now?

10. (a) Describe the purposes for which Locke's King's Act was passed, and what is its effect. (b) Discuss marshalling of assets. (c) Give in tabular form the priorities of beneficiaries as to the right of marshalling. (d) Describe the different kinds of legacies.

CONFLICT OF LAWS.

Examiner PROFESSOR WELDON.

TIME : TWO HOURS.

1. "A foreign judgment in personam is merely prima facie evidence of a debt." Criticise this dictum of Lord Brougham. Nova Scotia students will state the provisions of the Revised Statutes as to the value of foreign judgments sued on in Nova Scotia. State fully the grounds on which a foreign judgment may be impeached in New Brunswick.

Distinguish between judgments in rem and judgments in personam.

2. A, in Massachusetts, contracts with B, in Maine, that B is to have possession of A's sewing machine at once, but that A is to retain the property until the sum of four quarterly instalments is duly paid, with a clause, that if B is in default in making payment of either of the instalments, A shall at once resume possession of the machine, and that B only secures the property when he has paid the four quarterly instalments in full. B having paid two quarterly instalments, moves to Nova Scotia seven months after the making of the contract and brings the machine with him, which, five months afterwards, he mortgages to a trader as security for the price of goods then furnished on the credit of the machine. The Nova Scotia statute declares that "every lease—of chattels, accompanied by immediate delivery and followed by an actual and continued change of possession whereby it is agreed that the property in the chattels shall remain in the lessor until the payment in full of the price shall be in writing and registered, otherwise the lessor or property intended to be secured to the lessor shall be null and void, and of no effect, as against the mortgagee of the lessee."

Can A sustain trover for the machine against C?

3. A vessel flying the French flag is libelled in the Vice-Admiralty Court at Halifax for injury done to a submarine electric cable. What law will determine—

- Whether the act is a tort?
- The measure of damages?

4. In the Isle of Man "no action shall be brought but within three years next after the cause of action."

- A, in May 1881, in Man, incurred a debt. In October, 1884, A emigrated to New Brunswick. In 1886 B followed him to New Brunswick and sued him in the courts of that province. Can A defend successfully on the Manx statute of limitations?

5. A physician practising in Newfoundland performed medical services for the defendant, also remitted them for which he sue in a Nova Scotia court, both plaintiff and defendant having removed to this country. By the statute of Nova Scotia it is provided that no person shall practise medicine in Nova Scotia unless he is registered as a duly qualified practitioner, and further that "no person shall be entitled to recover any charge for medicinal services unless he shall prove on the trial that he is duly registered" under the charter. Plaintiff gave no such evidence, and defendant proved as a fact that medicinal services in Newfoundland were not recoverable by action, being in the nature of honorarium. Discuss the plaintiff's right to recover here.

CONSTITUTIONAL HISTORY OF ENGLAND.

Examiner PROFESSOR WELDON.

FIRST YEAR.

TIME : THREE HOURS.

1. Explain the terms: Ordal, Compurgation, Witan, Scutage, Feud, Trifidum, Normans.

2. Show that articles 12 and 14 of Magna Carta contain the germ of Parliament.

3. Give an account of the origin, constitution and powers of the three Appellate Courts: House of Lords, Judicial Committee of the Privy Council, and Court of the Exchequer Chamber.

4. "There were five principal checks upon the Royal Authority at the time of Henry VII." Name them.

5. Trace fully the origin of the Equitable Jurisdiction of the Chancellor.

6. Name three important privileges of parliament, and trace the development of either one.

7. Give an account of the writ of attaile.

8. Give a detailed account of the *Habeas Corpus Act* of Charles II.

9. Account for the political retrogression of England during the earlier Tudor reigns.

10. Give a detailed account of the Constitution of the Superior Courts of England under the *Judicature Acts*.

11. Give reasons for or against large electoral districts with several members for a district.

12. Write short notes upon—

- Dissolution of Impeachments.
- Defects of Jury Trials.
- Distinction between Privy Council and Cabinet.
- Origin of the principal items of the English Revenue of 1888.

INTERNATIONAL LAW.

Examiner PROFESSOR WELDON.

TIME : TWO HOURS.

1. Discuss at length the "Headlands Question" between England and the United States of America.

2. Discuss the right of the U. S. fishermen to buy bait and ice in Canadian ports under the Convention of 1818.

3. In the absence of treaty, are states bound to surrender fugitive criminals? Under the Canadian Constitution, where there is no treaty, are the authorities empowered to give up fugitive criminals?

- May Canada insist upon the surrender, by the U. S., of an American citizen who has committed a treaty crime in Canada and sought an asylum in the U. S.? Give reasons.

4. Discuss the "Munro Doctrine."
5. Discuss the case of *Francomia*.
6. What is the effect of war upon acts before contracts between the subjects of enemy states?

Illustrate fully with reference to Partnership, Marine Insurance and Freightment Contracts.

7. Is a neutral state bound to suppress contraband trade by its subjects? What is "occasional contraband"? Explain the doctrine of Pre-emption.

What are the penalties of contraband?

8. "Free ships make free goods; and hostile ships make hostile goods." Are these rules of law? Are they widely in force by treaty? Are they inseparable?

Give fully the history of them.

TORTS.

Examiner..... J. Y. PAYANT, A. M.

TIME: TWO HOURS.

1. Describe briefly the law respecting "remote" and "proximate" causes. What rule is generally applicable in deciding what consequences are immediate or proximate?

2. A discharges his clerk for alleged dishonesty, and hearing that B is about to hire him, of his own accord, but in ignorance of what he considers to be his duty writes B, saying that he had discharged his clerk for stealing goods. A acts *bona fide*, but is mistaken in the charge he makes. B thereupon refuses to employ clerk. Has clerk any remedy against A?

3. Name the principal divisions of oral defamation. Why is it libelous to publish in writing words which if only spoken would not be actionable?

Quoto from Lord Mansfield in *Theorley v. Kerr*.

4. Compare *Pasley v. Freeman* with *Hugycraft v. Creasy*.

5. A, a physician, falsely represents to B, another physician, that his practice is worth \$2000 a year, for the purpose of inducing B to buy his out. A sends B his account books to verify the statement, B refuses them without examining them, and purchases, relying on A's representation. The practice is really not worth \$1000 of which fact A was aware. Has B any remedy against A?

6. Distinguish between the following wrongs: Trespass to land, waste, trespass to personal property, conversion.

7. A buys 50 barrels of flour from B, terms cash on delivery. A fraudulently takes the flour from B's warehouse without his knowledge and does not pay him for it. He then sells one lot to a baker who immediately makes it into bread; another lot to a broker who immediately re-sells it, and the balance to another broker who packages it not on his own account, but for and in the name of a merchant authorizing him. Describe what, if any, cause of action B has against the baker and the two brokers or either of the three.

8. State shortly the facts and the substance of the judgment in *Dessall v. Sadding*.

9. Distinguish between Trespass and Nuisance, illustrating by *St. Peter's Sealing Co. v. Tipping*. Give your views respecting the law of nuisance applicable to interferences with our bodily comfort and enjoyment as distinguished from those affecting land, vegetation, &c.

10. Is there any distinction between mere negligence and contributory negligence considered in relation to the cause of the injury? Give examples and authorities.

CONSTITUTIONAL LAW.

Examiner..... Dr. WELDON.

TIME: THREE HOURS.

1. Give rules to determine whether (a) the early statutes, (b) the common law, (c) the law parliament of England are in force in Nova Scotia.

2. State fully the provisions of the B. N. A. Act with reference to the disallowance of Provincial Acts. Must the Governor-General, in disallowing such statutes, act with the advice of the Council? Give reasons. What was the practice before Confederation as to the disallowance of N. S. Acts?

3. In determining how far English laws are in force in a self-governing colony, what distinctions do you draw among settled, ceded, and conquered colonies? What between colonies with statutory constitutions and others whose constitutions were given by Charter or Commission? Was the first N. S. Legislature the creature of an Imperial Statute?

4. Is the act of Manitoba chartering a railway to run to the International boundary, to connect with American railways, constitutional? Cite the pertinent sections of the B. N. A. Act and give full reasons.

5. From what source does the Vice-Admiralty Court in N. R. derive jurisdiction? To what court must Vice-Admiralty appeals be taken?

6. Is that section of the N. S. Liquor Licence Law compelling Brewers to take out a license to sell, unconstitutional? Give reasons. Is the so called "two-thirds clause" constitutional?

7. What rules do you deduce from the three Privy Council cases touching the constitutionality of laws affecting the sale of Intoxicating Liquors?

7. What method is available in Canada to remove a County Court Judge? What to remove a Judge of a Superior Court for misbehaviour?

8. Argue the question of the constitutionality of the N. S. Statute defining the privileges of the N. S. Legislature.

9. Give three important causes for construing the B. N. A. Act and fully illustrate their meaning.

10. What powers, if any, has the House of Commons of Canada retained as to the trial of Contested Elections? Give authorities and reasons.

11. Show the need of observing certain radical distinctions between the Canadian and American Federal Unions. Point out some of the more important differences.

INSURANCE.

Examiner WALLACE GRAHAM, Q. C.

TIME: 10 A.M. TO 12 M.

1. Assuming that a policy of insurance is not delivered, what remedy would the assured have against the underwriters?
2. Name the principal risks covered by Marine Insurance. What risks have to be specified in the policy?
3. What is meant by Insurable Interest? Is it lawful for the same interest to be insured to the amount of double its value, and could such an insurance be recovered?
4. What is Re-insurance? Double Insurance?
- Can the mortgagee and mortgagee of a ship each recover the full value of a ship if they have separate insurance?
5. Explain the case of *Lucas v. Crawford*.
6. Give a definition of "Perils of the Sea," and refer to decided cases as to what will be covered by that expression?
7. What restriction is to be placed on the expression "all other perils" in a policy, in order to prevent recovery in respect to every possible accident to a ship?
8. When, if ever, can a loss caused by barefury be recovered for where the policy is only against perils of the sea?
9. What kind of concealment vitiates a policy of Marine Insurance?
10. How would you ascertain whether or not a concealment was material? What is the test?
11. When is a principal held liable for concealment by an agent?
12. What is the difference between a Representation and a Warranty?
13. What is a sufficient compliance with the warranty to sail by a given date?
14. What is the difference between an actual and constructive total loss?
15. When is a notice of abandonment excused?

CONTRACTS.

Examiner PROFESSOR RUSSELL.

TIME: THREE HOURS.

(Not more than ten questions are to be answered.)

1. "The case of *Dickinson v. Dadds* decides that knowledge in point of fact of the proposer's changed intention, however it reaches the other party, will make the proposer's conduct a sufficient revocation of the offer."—Pollock. Discuss this principle in connection with the case referred to, and criticise the case.

2. What classes of contracts are within the 4th and 17th sections of the Statute of Frauds respectively? What are the provisions of the statute? What is the present tendency of judicial opinion as to the supposed difference between the two sections as to their effect on the contracts to which they refer, i. e., (whether void or unenforceable.)

3. "All contracts are, by the law of England, distinguished into agreements by specialty, and agreements by parol; nor is there any such third class as contracts in writing." *Rosen v. Hughes*. When and by whom has this doctrine been questioned? Discuss the point involved and state the present condition of the law.

4. What is the position of an infant with respect to contractual capacity? What is the law as to necessaries? "Quare whether evidence is admissible on the part of an infant defendant to prove that when the goods were supplied to him he was already sufficiently provided, but not to the knowledge of plaintiff, with goods of a similar description." How has this question been determined?

5. Explain the terms, condition precedent, condition subsequent, contingent conditions? What distinction does Anson make between contingent promises and conditional promises? What are divisible promises and subsidiary promises? Illustrate.

6. In what various senses is the term warranty used and what is the true meaning of the term? State the case of *Buccaneers v. White*. (Hops sold in the cultivation of which sulphur had been used.) By what term would you describe the seller's undertaking in that case?

7. What are the ingredients and legal consequences of Fraud? How has the term legal fraud been criticised? Illustrate with reference to a decided case, the difference between fraud which will render a contract voidable, and fraud amounting to mistake which will prevent the formation of a contract.

8. Plaintiff sue for services performed under an oral contract not performed within a year, and also for damages for breach of the agreement by wrongful dismissal. Discuss his right to recover under both counts of his claim. Had he wrongfully left the service, could he recover wages for the period he served on a *quasi contract*? Give reasons for your answer.

9. In what cases will impossibility of performance, arising after the formation of the contract, excuse performance of it? State the principles or reasons on which the cases mentioned are founded.

10. A is indebted to B and B to C in a sum certain. They meet and all agree that A shall pay C the amount due B instead of paying B. What are the legal effects of the transaction? State the considerations supposed to exist for the several obligations and discharges effected, and test them by the principle that consideration must move from the party to whom the promise is made.

11. Discuss the validity of stock-jobbing transactions in this province.

12. "A contract confers upon the parties to it rights in rem as well as rights in personam." What does this mean? Discuss the proposition with reference to *Lumsley v. Gyr* and *Rosen v. Hall*.

BILLS AND NOTES.

Examiner..... PROFESSOR RUSSELL.

TIME : THREE HOURS.

(Candidates will answer only ten questions.)

1. A note was made in Canada, payable there in Canada bills, which were made legal tender by statute. Held, that this was not a promissory note, not being payable in money. Discuss this ruling, and also the following statement of Daniel. "It is not necessary that the money should be current in the place of payment, or where the bill is drawn. It may be in the money of any country whatever."

2. An instrument in the form of a bill is drawn payable to the order of a person named, and signed by the drawer, but no drawee is named : (a) Is it a bill or note? (b) What is the legal position of one who accepts it? (c) What is the general rule as to ambiguous instruments? (d) A draws a bill, directed to himself, in favor of B. What is the legal effect of the transaction?

3. State the successive steps by which bills and notes became negotiable, and trace the course of legislation with reference to the modes of acceptance. Can a holder in this province refuse to take an acceptance made payable at a particular place?

4. "An acceptance . . . is complete the moment it is written on the bill. Consistently with this view a subsequent cancellation before delivery would be nugatory." Discuss this opinion on principle and on authority.

5. What is the effect (a) of indorsing specially without the words "or order" a bill negotiable in its inception? (b) of indorsing to order of a particular person after a previous indorsement in blank? How is the latter question answered by the English Act?

6. What is "the doctrine in *Penny v. Ivens*?" A sells goods to B and draws a bill on him for the price. C, intending to be surety for the payment signs under B's acceptance. What, if any, liability does he assume? What would be his position if he put his signature on the back of the bill? In what way could a bill be drawn to accomplish the desired result? What are the objections to this method, and how should the matter be regulated by statute?

7. "Although the holder has given value for a bill or note [taken before maturity], yet if he took it under circumstances which ought to have excited the suspicions of a prudent and careful man, he cannot recover." Discuss this statement of the law.

8. Bills are pledged by a debtor with his creditor solely as collateral security for an existing debt, with no agreement for forbearance. Is the pledgee a holder for value?

9. An accommodation bill is endorsed away after maturity. Can the accommodation acceptor set up the defense, (a) with, or (b) without an agreement between the immediate parties that the bill should not be negotiated after maturity? Give reasons for the answer to b.

10. Under what circumstances is a bill said to be extinguished? A bill is paid at maturity by the drawer, to whom it is transferred. Is it extinguishehd? Would the answer be the same if the bill were accepted for the accommodation of the drawer? How would it be if the bill were paid by and transferred to the accommodation acceptor?

(a) "If a bill payable to a third person is taken up by the drawer, it cannot be afterwards negotiated except through the payee, (*Brock v. Robley*). Explain this, and give the reason for the distinction here taken."

11. When are a note payable on demand, a note payable at a specified period after demand, and a note payable by instalments respectively overriding, (a) for the purpose of bringing action against the maker, (b) for the purpose of subjecting a subsequent holder to equities?

12. A, a member of a firm of attorneys, draws without the authority of his co-partners, a cheque on the Union Bank, dated seven days hence, which is cashed by B. The cheque is duly presented on the day it bears date and payment refused. Can the holder sue the firm on the cheque, or for money paid? Give reasons.

13. The holder of a bill for \$200 takes from the acceptor \$100 in full discharge of his claim against the acceptor, but expressly reserves his rights against the drawer, who is no party to the agreement. Is the drawer discharged? State the principle upon which he would claim to be discharged, with its limitations.

REAL ESTATE.

Examiner..... S. L. SHANON, Q. C.

TIME : THREE HOURS (FOR THE TWO SUBJECTS).

1. How may Real Estate be acquired? State whether by conveyance or otherwise, and the modes of conveyance.

2. When a grant of land is obtained from the Crown by a party, what reservations are generally contained in it? And what is the effect of the reservations?

3. What are emblements? Is there any difference as to rights to emblements in tenancies for life and tenancies for years?

4. What is waste? What are the two kinds of waste? Give the particulars of each kind, and how far they are applicable to estates for life, and estates for years?

5. A testator devises his real estate to his wife A, remainder to his son B, in fee, but should B die without issue in the fifth year of the wife A, the remainder to C after the wife's death. What are the respective interests of B and C in the lands devised?

6. A lease is made for a certain period, but determinable within the period, at the election of the parties, or one of them, without naming the party; which party has the option of determining the lease under the provision contained in it?

7. What covenants run with the land? Describe them. What is the leading case on the subject?

8. A tenant being in arrears with his rent, his landlord took from him a bond for the amount, payable in three months. Subsequently, finding that his tenant was making away with his property, the landlord distrained for the rent before the bond was due. Could he do so? What is the law upon the subject?

9. State what is necessary to be done by a landlord, or his bailiff, in making a distress, and what he can, and what he cannot distrain.

10. The private way which a party has over another person's land becomes impassable by means of a flood, has the party a right to go over the adjoining land during the period of the flood? Is there any difference in such a case between a private way and a way of necessity?

11. The owner of lands appropriates surface water which flows over his land in no definite channel, and thereby prevents the water from reaching a water-course which it had previously supplied. Can he legally do so? Is the same law applicable to subterranean water?

12. What is the law in reference to Lateral Support? What is the principal case upon the subject?

13. Can the owner of a house and land adjoining, after selling the house, obstruct the light of the house by building on the land adjoining the house which he had not sold? State the reason for your answer.

14. A devise is made to an attesting witness, will this affect the validity of the will?

15. What are the formalities required by our statute on the execution of a will? Is there any difference between a will of real and a will of personal property?

CRIMES.

Examiner S. L. SHANNON, Q. C.

TIME: THREE HOURS.

1. From what sources is the criminal law of Canada derived? and where is it to be found?

2. What is a *Crime*? Does the public trial and punishment of an offender preclude the right, in all cases, of a private individual to claim damages for an injury done him?

3. What is a *Felony*? and what a *Misdemeanor*?

4. What is necessary to constitute a crime?

5. If a wife is concerned in the commission of a crime in her husband's company will she be considered guilty? Give the reasons for your answer, and state whether this is applicable in all crimes.

6. Who are principals in, and who are accessories to a crime?

7. Define *treason*, *murder*, and *manslaughter*.

8. Three soldiers go to rob an orchard. Two of them get into a fruit tree. The third stands at the gate with a drawn sword, and stops the owner who tries to arrest him. Of what crime, if any, are the two in the tree guilty?

9. A injures B's finger. B is advised by a surgeon to have it amputated, but refuses, and dies of lockjaw. Is A guilty?

10. Define *larceny* and *burglary*.

11. A buys a bureau from B at a sale with money in a secret drawer, of the existence of which neither A nor B is aware. A retains the money. Has he committed larceny? State the reasons for your answer.

12. A, in the sight time, opened a sash window, put a crowbar under the shutter, three inches inside the window, and tried to break open the shutter, but was not within the sash window. Has he committed burglary? Give the reasons for your answer.

PARTNERSHIP.

Examiner MR. HARRINGTON, Q. C.

N.B.—The student is expected to answer ten questions only.

1. A person owing an estate conveyed it to the projectors of a joint-stock company for \$50,000. Of this sum \$10,000 was paid him in cash, and he agreed to take paid up stock in the concern for the balance. —The company went into operation, two years elapsed, the stock was never in fact allotted him, and at the end of that time the company was in an admittedly bankrupt condition. The directors then offered him his stock certificates which he refused to take. He claimed to be a creditor for his \$40,000. On the other hand the creditors of the concern, having put it into liquidation, claimed that he was a stockholder and therefore a contributory. What are the rights of the respective parties?

2. Discuss the operation of the 4th section of the Statute of Frauds (English), relating to contracts for the sale of lands, upon the following transactions:—

(a) Two persons in partnership verbally agree that one of them shall buy in his own name a piece of land to be used for partnership purposes, the profits to form partnership assets, the original cost to be borne equally by both. Such person makes the purchase, and then sets up the statute as an answer to the claim of the other for an account of the profits.

(b) Two persons, not partners, verbally agree to buy land, as above, to hold it in common and divide the profits. The land is bought, but he in whose name it is refuses to account for the rents or profits.

3. Under what circumstances may a person who has paid a deposit on account of shares in a company about being formed, recover back such deposit? And when may the proprietors deduct from such amount, on repaying it, the expenses to which they have been put?

4. Give your opinion on the two following cases:—

(a) The Act incorporating a company enabled the directors to borrow money, when authorising so to do by a vote of a general meeting of shareholders. The directors borrowed money without any such vote, from persons not connected with the company, and unaware of the absence of such resolution.

(b) The Incorporating Act enabled the company to borrow to the extent of \$10,000. The plaintiff, with the concurrence of all the members at a regular meeting, lent \$20,000, taking the company's bonds for the amount.

Can these lenders recover those amounts.

5. For what causes will the court decree the dissolution of a partnership during the currency of the period for which the articles provide it is to continue?

6. State the rules relating to the effect upon a partnership of physical or mental incapacity of one of the partners.

8. State what fund is, out of which, first, partners, and secondly, directors, may declare dividends. Distinguish between the powers in this respect of partners and directors, and state the consequence of the latter declaring a dividend out of the funds other than those allowed by the law.

9. Losses have occurred in the business of a firm under the circumstances below, and have been borne in the first instance by one only of the members. Give the rule in each case as to such member's right to contribution from the others :—

(a) The original purposes of the partnership were illegal, and the loss was sustained by such illegal acts.

(b) The original purposes are not illegal, but all the members as a whole have done an illegal act for which one has been compelled to pay.

(c) The original purposes being legal, one partner has himself knowingly committed an illegal act for which he has been compelled to pay.

10. What is meant by the *lien* of partners, and describe how, through means of such liens, it comes about that creditors are paid first out of joint estates. Remark also upon the effect of the "lien" upon debts due to the firm by the members thereof, distinguishing between such debts as are incurred by virtue of the partnership relation and those incurred otherwise, giving an illustration of each of such classes of debts.

11. Two partners, upon a voluntary dissolution of the firm, agree that one of them shall convey to the other his entire interest in all the assets, the assignee to hold them for his own benefit. The joint creditors bring an action to have the firm's affairs wound up, and, finding the assets remaining *in specie*, require the partner to whom such assignment has been made to bring such assets into distribution. What is the rule?

12. Premising that good faith is exacted by the law from each partner in his dealings with the firm, what would be your opinion of the following cases :—

(a) A firm were holders of a lease, the profits of which belong to the general account. When the lease was about expiring one of the members, without notice to the others, procured a renewal of it, and then dissolved the partnership. Subsequently he carried on business upon the demised premises and made profits from the lease. His former partner claimed a share of those profits.

(b) A partner with a view to renewing the business for his own benefit dissolved the firm, and then carried the same business on, making profits which he refused to share with the other.

13. Within what limits is a firm liable : (a) for the torts, and (b) for the frauds and misappropriations of one of its members.

14. State the rule governing the power of one partner to bind the firm by the following acts :—

(a) Drawing or accepting bills or notes.

(b) Borrowing money.

(c) The giving of a guarantee.

15. Suppose a firm of two to be dissolved by the death of one. The survivor, instead of winding up its affairs, continues to carry on the business in the original name, not paying over to representatives of deceased any of the profits. What are the rights of such representatives?

What would be the result if instead of making a profit, the survivor had sustained a loss?

Would your opinion be influenced by the consideration of the solvency or insolvency of the concern at the time of death?

PROFESSIONAL EXAMINATIONS.

FACULTY OF MEDICINE.

PRIMARY, M. D., C. M.

(50% required for pass in each subject.)

ANATOMY,

(INCLUDING PRACTICAL ANATOMY).

Examiners...Geo. L. SINCLAIR, M. D., AND A. W. H. LINDSAY, M. D.

TIME: THREE HOURS.

1. Describe the Diaphragm,—its attachments, relations, openings, blood and nerve supply,—and indicate its functions.

2. Describe the course and relations of the External Carotid Artery, and some of its branches. Indicate the course and distribution of the Facial branch of the Carotid, and mention the arteries with which it anastomoses.

3. Describe the Scalenus Anticus, Pectoralis Minor and Pectoralis Major muscles.

4. Describe the Internal Iliac Artery, stating its point of origin, length, direction and relations. Enumerate its branches, and give the course and relation of the Internal Pudic Artery.

5. Describe the Duodenum, including its minute structure.

6. Describe the Anterior Crural Nerve. Enumerate its branches, and give their distribution.

PHYSIOLOGY.

Examiner.....J. SOMERS, M. D.

TIME: THREE HOURS.

1. Life:

a. Describe the physical and vital phenomena accompanying organic (living) matter.

b. Also the distinguishing features of organic versus inorganic matter.

c. What are proximate principles? How are they divided? Indicate the character, and give one example of each class.

2. The Blood:

Describe this fluid—a. Quantity and variations.

b. Appearance, specific gravity, temperature.

c. Physiological and Anatomical composition.

3. The Circulation.—In a concise way, describe the organs of circulation, and the manner of the passage of blood from right to left ventricle.

4. Respiratory process.—Give a short description of this process.

5. The Digestive process.—Describe the part of it taking place in the Duodenum.

6. Secretion.—a. Give the difference between secretions and excretions. b. Describe the characteristics of the urinary secretions (normal).

7. The Nervous System.—Mention the divisions of nervous matter and describe each, viz.:

- (Physiological), nerves and nerve centres, nervous cells and fibres.
- (Anatomical), the arrangement into systems.
- Motor as distinguished from sensory nerves. One example of each.
- The distinguishing characteristics of special sensory nerves.

8. Of Generation:

- What is the Ovum? What the Spermatozoon?
- How does the holoblastic differ from the meroblastic egg?
- What is the Blastoderm? What the Gastron?
- What are the exuriae of the mammal at birth?

MATERIA MEDICA.

(INCLUDING THERAPEUTICS AND PRACTICAL PHARMACY.)

Examiner..... D. A. CAMPBELL, M. D.

TIME: THREE HOURS.

1. Write in full a prescription for a diuretic mixture to contain not fewer than three drugs. Name the officinal preparations of such drugs, with doses.

2. Explain fully the different methods of making Tinctures.

3. Explain hypodermic medication. Describe the syringes, method of using it, and advantages. What dangers must be guarded against, and name the drugs so employed.

4. By what means, and for what objects, would you produce diaphoresis?

5. Describe the chief therapeutic uses of Arsenic and Hydrate of Camphor.

6. Describe fully the pharmacology of Quinine.

7. Name the agents commonly employed to induce anaesthesia. Describe action, uses, and method of administering any one of them.

CHEMISTRY.

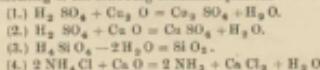
Examiner..... PROF. LAWSON.

TIME: THREE HOURS.

1. What is the chemical nature of the process of Combustion, what bodies usually enter into it, and what are the ordinary products? (Give examples of slow and rapid combustion.) A combustible substance, consisting of Carbon and Hydrogen, is introduced in a burning state into each of the following gases; what takes place in each case? and what are the products of combustion, if any: H₂, Cl₂, N₂, O₂, CO, CO₂.

2. In what forms or combinations do the following elements occur most commonly in nature:—S, P, K, Ca, Fe, Pb, As, Sb. Explain the apparent chemical reasons for their so occurring. Enumerate the principal metals whose sulphides are: (a) insoluble in cold solutions, (b) soluble in acid, but insoluble in neutral and alkaline solutions, (c) soluble in water.

3. Write concisely in words without any unnecessary explanation, the exact meaning of the following chemical equations:—



4. What are conclusive tests for the presence of Arsenic in cases of poisoning? Where the amount has to be estimated, how would you treat the contents of a stomach? A quantity of Arsenious Sulphide is precipitated from a solution; it weighs 8 grains. Find by calculation what that weight is equivalent to in Arsenious Acid, (i. e., what quantity by weight of the latter compound will contain the same amount of metallic Arsenic as 8 grains of Arsenious Sulphide.)

5. What tests would you apply to detect Mercury Salts, Silver Salts, Alcohol?

BOTANY.

Examiner..... PROF. LAWSON.

TIME: THREE HOURS.

1. Describe the vitally active vegetable cell, the process of cell-development, and the principal modification of the cell for special functions and beneficial purposes in the plant.

2. Describe the principal forms of tissue-elements forming the fibrous and tubular tissues of plants.

3. Explain the processes of Absorption of inorganic materials, and Assimilation or formation of carbohydrates.

4. Give a general outline of the classification of plants, pointing out the structural characters upon which the larger groups are founded.

5. Give the prominent or essential characters of each of the following natural orders, with, in every case, examples of medicinal plants belonging to the order:—

1. Ranunculaceae.
2. Papaveraceae.
3. Cruciferæ (Brassicaceæ).
4. Leguminosæ (Fabaceæ).
5. Umbelliferae.
6. Solanaceæ (including Atropaceæ).
7. Rubiaceæ (Cinchonaceæ + Guttiferae).

MUNRO EXHIBITIONS AND BURSARIES.

CANDIDATES for these Exhibitions and Bursaries, must fill up this Schedule, so far as it may be applicable to their case, and send it to the Principal. The letter containing it should be registered at the post office, addressed : "The President, Dalhousie College, Halifax, N. S." and sent so as to reach him on or before September 1st, 1888.

Candidates for Junior Exhibitions and Bursaries, and Candidates for Senior Exhibitions and Bursaries who are not undergraduates of this University, must send with this Schedule certificates of good moral character, signed by clergymen or other persons occupying public official positions.

Candidates for Senior Exhibitions and Bursaries, who are not already undergraduates of this University, must send also the certificates required by § rr. 6; page 30.

(1.) Is it for a Senior or for a Junior Exhibition (or Bursary) that you are a candidate?

(2.) Have you ever matriculated in Arts at a University?

(3.) If so, at what University?

(4.) And at what date?

(5.) How many academic years have you spent as an undergraduate in Arts at a University or at Universities?

(6.) At what University or Universities were they spent?

[OVER.]

(7.) Give the dates.

(8.) Have you ever before competed for the Exhibitions and Bursaries for which you are now a candidate?

(9.) If so, when?

(10.) Name the High Schools or Academies attended by you, giving years of attendance at each.

(11.) If a candidate for Senior Exhibitions and Bursaries, in what groups of subjects do you wish to be examined?

Parent's or Guardian's name and address.

Candidate's present address.

Signature in full.

Date.

I have read over and fully understood your application and I declare that all the information given is true and correct.

I accept your conditions of competition and I agree to abide by them.