

CALENDAR
OF
DALHOUSIE COLLEGE
AND
UNIVERSITY,

HALIFAX, NOVA SCOTIA.

1890-91.



HALIFAX:

PRINTED FOR THE UNIVERSITY BY THE NOVA SCOTIA PRINTING COMPANY.

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LIBRARY

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NOTICE.

Attention is directed to changes in §§ I, V, VI, VII, IX, X, XI.

In Memoriam.

REV. WM. LYALL, LL. D., F. R. S. C.

BORN AT PAISLEY, JUNE 11, 1811.

APPOINTED PROFESSOR OF LOGIC AND PSYCHOLOGY IN THIS
UNIVERSITY, 1863.

DIED JANUARY 17, 1890.

DEEPLY LAMENTED BY ALL CONNECTED WITH THE
UNIVERSITY.

TIME TABLE—FACULTY OF ARTS.

University Almanac, 1890-91,

Year.	Hours.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.
First Year.	9	Math. (Tutor). Latin.	Inorg. Chem. Greek. Botany.	Inorg. Chem. Greek. Botany.	Math. (Tutor). Latin.	Inorg. Chem. Latin.
	11	Mathematics. Latin (Tutor).	Mathematics. Greek. 2nd French. 1st German.	Mathematics. Latin (Tutor). 1st German.	Mathematics. Greek (Tutor). 2nd French. 1st French.	Mathematics. Greek (Tutor). 2nd German.
	12	Mathematics. Latin (Tutor).	Mathematics. Greek. 2nd French. 1st German.	Mathematics. Latin (Tutor). 1st German.	Mathematics. Greek (Tutor). 2nd French. 1st French.	Mathematics. Greek (Tutor). 2nd German.
	13	Mathematics. Latin (Tutor).	Mathematics. Greek. 2nd French. 1st German.	Mathematics. Latin (Tutor). 1st German.	Mathematics. Greek (Tutor). 2nd French. 1st French.	Mathematics. Greek (Tutor). 2nd German.
	14	Mathematics. Latin (Tutor).	Mathematics. Greek. 2nd French. 1st German.	Mathematics. Latin (Tutor). 1st German.	Mathematics. Greek (Tutor). 2nd French. 1st French.	Mathematics. Greek (Tutor). 2nd German.
Second Year.	9	Mathematics. Latin.	1st French. Mathematics. Greek.	Mathematics. Latin.	Mathematics. Greek.	Mathematics. Latin.
	10	Mathematics. Latin.	1st French. Mathematics. Greek.	Mathematics. Latin.	Mathematics. Greek.	Mathematics. Latin.
	11	English. 2nd German. Junior Phil.	1st French. Mathematics. Greek. Junior Phil.	Mathematics. Latin. 2nd German. Junior Phil.	English. 2nd French. Junior Phil.	2nd German. 3rd German.
	12	English. 2nd German. Junior Phil.	1st French. Mathematics. Greek. Junior Phil.	Mathematics. Latin. 2nd German. Junior Phil.	English. 2nd French. Junior Phil.	2nd German. 3rd German.
	13	English. 2nd German. Junior Phil.	1st French. Mathematics. Greek. Junior Phil.	Mathematics. Latin. 2nd German. Junior Phil.	English. 2nd French. Junior Phil.	2nd German. 3rd German.
Third Year.	9	3rd German. Metaphysics.	1st French. Greek (1st yr). Pol. Economy. Dynamics.	1st German. Metaphysics.	2nd French. Greek (1st yr). Pol. Economy. Dynamics.	2nd German. History.
	10	3rd German. Metaphysics.	1st French. Greek (1st yr). Pol. Economy. Dynamics.	1st German. Metaphysics.	2nd French. Greek (1st yr). Pol. Economy. Dynamics.	2nd German. History.
	11	3rd German. Metaphysics.	1st French. Greek (1st yr). Pol. Economy. Dynamics.	1st German. Metaphysics.	2nd French. Greek (1st yr). Pol. Economy. Dynamics.	2nd German. History.
	12	3rd German. Metaphysics.	1st French. Greek (1st yr). Pol. Economy. Dynamics.	1st German. Metaphysics.	2nd French. Greek (1st yr). Pol. Economy. Dynamics.	2nd German. History.
	13	3rd German. Metaphysics.	1st French. Greek (1st yr). Pol. Economy. Dynamics.	1st German. Metaphysics.	2nd French. Greek (1st yr). Pol. Economy. Dynamics.	2nd German. History.
Fourth Year.	9	2nd German. Metaphysics. Const. Law. Sen. Physics. Org. Chem. Adv. Physics.	1st French. Metaphysics. Const. Law. Sen. Physics. Org. Chem. Adv. Classics. History. Conductors.* Ethics. Chem. Lab. Greek (1st yr). Adv. Math. Chem. Lab. Adv. Metaph.	1st German. Metaphysics. Const. Law. Sen. Physics. Org. Chem. Adv. Classics. History. Conductors.* Ethics. Chem. Lab. Greek (1st yr). Adv. Math. Chem. Lab. Adv. Metaph.	2nd French. Pol. Economy. Dynamics. Botany. Adv. Classics. History. Conductors.* Greek (2nd yr). Ethics. Chem. Lab. Latin. Adv. Math. Chem. Lab. Adv. Metaph.	2nd German. History. Const. Law. Sen. Physics. Org. Chem. Adv. Classics. History. Conductors.* Ethics. Chem. Lab. Latin. Adv. Math. Chem. Lab. Adv. Metaph.

* The hour of this class may be changed if any of the members of it wish to take the History Class.

1890.

- Aug. 25. M.—Last day for receiving notices of Supplementary and Matriculation Examinations (Law Faculty).
- Sept. 2. Tu.—Session (Law Faculty) begins.—Matriculation and Supplementary Examinations (Law Faculty).—Registration and payment of class fees (Law Faculty).—Meeting of Law Faculty, 4 p. m.
3. W.—Lectures begin (Law Faculty).
4. Th.—Meeting of Senate, 11 a. m.
5. F.—Meeting of Faculty of Arts, 11 a. m.—Meeting of Faculty of Law, 4 p. m.
9. Tu.—3 p. m., Registration of candidates for Matriculation and Bursary Examinations (Arts Faculty).
10. W.—Session (Arts Faculty) begins.—Examinations for Senior and Junior Bursar Exhibitions and Bursaries, and for 1st Year Matriculation (Arts Faculty), begin:
8.45 a. m., Latin.—3 p. m., Greek.
11. Th.—10 a. m., Geometry.—3 p. m., Arithmetic and Algebra.
12. F.—10 a. m., History and Geography.—3 p. m., English Language.
13. Sa.—10 a. m., Chemistry.—2 p. m., Botany.
15. M.—10 a. m., French.—3 p. m., German.
16. M.—Supplementary Examinations (Arts Faculty) begin, 10 a. m.
18. Tu.—1st Year Matriculation Examination (Arts Faculty) begins, 10 a. m.
19. Tu.—Initiation as to elective subjects, to be made by Undergraduates of 2nd and 4th Years, on or before this day.
20. " — Meeting of Faculty of Arts, 9 a. m.
21. " — Convocation, 3 p. m.
22. F.—Matriculation, Registration and Gymnasium Tickets issued at hours specified in notice in College Hall (Arts Faculty).
23. " — Lectures begin (Arts Faculty).
25. M.—Meeting of Faculty of Law, 4 p. m.
- Oct. 6. M.—Meeting of Governors.
5. W.—Final Matriculation Examinations (Arts Faculty) begin:
3 p. m., English, History and Geography.
8. Th.—2 p. m., Classics and Modern Languages.
20. F.—3 p. m., Mathematics.
11. Sa.—10 a. m., Chemistry.
14. Tu.—Meeting of Faculty of Arts, 11 a. m.
15. W.—Last day for receiving applications for Medical Matriculation Examinations.
17. Th.—Meeting of Faculty of Arts, 4 p. m.
19. F.—Returns as to residence and Church attendance, to be made on or before this day.
20. W.—Session (Medical Faculty) begins. Matriculation Examination (Medical Faculty) begins.
- Nov. 1. Sa.—Results of Medical Matriculation Examination declared and certificates issued.
3. M.—Registration, payment of class fees, and beginning of lectures (Medical Faculty).
6. Th.—Meeting of Faculty of Law, 4 p. m.
- — — — — Thanksgiving Day and the following day—no lectures.
- Dec. 4. Th.—Meeting of the Faculty of Law, 4 p. m.
22. M.—No lectures.—Christmas Vacation begins*.

* The dates of the Christmas Examinations (See § XI (7)) will be announced after the opening of the Session.

1801.

- Jan. 2. F.—Meeting of Governors.
 7. W.—Lectures resumed.
 8. Th.—Meeting of Faculty of Law, 4 P. M.
 22. F.—George Munro Day.—No lectures.
- Feb. 2. M.—Meeting of the Senate, 4 P. M.
 5. Th.—Meeting of the Faculty of Law, 4 P. M.
 11. W.—Ash Wednesday.—No lectures.
 13. F.—Last day of Lectures (Law Faculty).
 22. M.—Last day for receiving M. A. Theses.
- Mar. 2. M.—Meeting of Senate, 4 P. M.
 7. F.—Good Friday.—No lectures.
- April 1. W.—Meeting of Governors.—Last day for receiving applications for Primary and Final M. D., C. M. Examinations.
 7. Tu.—Last day of lectures (Arts Faculty).—Meeting of Faculty of Arts, 4 P. M.
 9. Th.—Spring Examinations (Arts Faculty) begin!
 10 A. M., Practical Chemistry and Practical Physics.
 16. F.— 9 A. M., Latin.
 11.15 A. M., French.
 3 P. M., Logic and Botany.
 " " —Lectures close (Medical Faculty).
 11. Sa.— 9 A. M., Additional Latin.
 11.15 A. M., Mathematics, History (2nd year), and Senior Physics.
 3 P. M., English (1st year) and Adol. English (2nd and 4th years).
 " " —Certificates of Class attendance (Medical Faculty) issued.
 13. M.— 9 A. M., Political Economy.
 11.15 A. M., English (2nd, 3rd and 4th years).
 3 P. M., Chemistry (Inorganic and Organic).
14. Tu.—Last day for receiving books to the University Library.—Primary and Final M. D., C. M. Examinations begin.
 " " — 9 A. M., Greek.
 11.35 A. M., Adol. Greek (1st and 2nd Years), Junior Physics, and History (3th year).
 3 P. M., Metaphysics.
15. W.— 9 A. M., Mathematics and Dynamics.
 11.15 A. M., Adol. Mathematics and Adol. Physics.
 3 P. M., Adol. Greek (3rd and 4th years), Adol. Dynamics, and Adol. English (3rd and 4th years).
16. Th.— 9 A. M., German.
 11.15 A. M., Additional French.
 3 P. M., Ethics.
17. F.— 9 A. M., Additional Ethics.
 11.15 A. M., Additional German.
 3 P. M., Additional Metaphysics.
20. M.—Ond Examinations (Medical Faculty).
 21. Tu.—Meeting of Faculty of Arts, 10 A. M.
 22. W.—Meeting of the Senate, 10 A. M.—Results of Examinations (Arts Faculty) 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 Castine, in Maine, during its occupation in 1814 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 defraying the expenses of any improvement which it might seem 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 operation in 1838, under the Presidency of the Rev. Thomas McCulloch, D.D., and with a staff of three Professors.

By an Act passed in 1841, 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 1856, the Arts department of the Gosham 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 under the act of 1841. This union, however, came to an end in 1857.

In 1863, 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., 1863.)

WHEREAS, it is expedient to extend the basis on which the said College is established, and to alter the constitution thereof, so as to 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 Simons, John W. Ritchie, 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 to the same extent and support a chair or professorship, and to the nominee of any testator by whose will a chair or professorship may be so 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 *Senatus Academicus*, formed by the respective chairs or professorships thereof, subject in all cases to the approval of the Governor.

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., 1876.)

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 with new nominations made on the same principle as set forth in the first section of the Act heretofore 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 1863, 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 Organization 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 enjoyed a chair or Chairs in the College shall have a right to nominate a governor for each chair enjoyed, 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 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 Provinces 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.

In 1883 a Faculty of Law was added.

In 1879, 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 Tutor in Classics and Mathematics. In 1884, he founded a Professorship in Metaphysics. Since 1880, he has provided the University with Exhibitions and Bursaries, to the amount of \$61,648.61, 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 magnificent manner in which he has come to their help in the work of building up a masterplan University 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 McLEOD, 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 thereof shall go 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 of his subscription to the Building Fund. 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 \$50, 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 heretofore 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."

In 1887, J. F. AVERY, M. D., made the following bequest to the College:—

"I give and bequeath the sum of \$600 to Dalhousie College in the City of Halifax, to be at the disposal of the Senatus of the said College, and the interest thereof to be appropriated for an annual prize."

In 1887, MRS. HARRIET ELIZABETH MACKENZIE, of Morrison, of Stornoway, Scotland, formerly of Picton, N. S., made the following bequest:—

"To Dalhousie College, £1,000 for founding a bursary for students attending said College, subject to such conditions and regulations as

the governing body of said College may appoint, but with this proviso, that said bursary shall be called the 'Mackenzie Bursary,' and that students of the name of Mackenzie, Maclean, and Fraser shall have a preference in the selection of beneficiaries thereof.

The following donations have been made to the Endowment Fund :

Hon. Sir Wm. Young, W. J. Stairs, Esq., Hon. Stayley Brown, John Gibson, Esq., John P. Mott, Esq., Wm. P. West, Esq., Thos. A. Ritchie, Esq., and Hon. Robert Cook, \$1000 each; Adam Burns, Esq., Peter Jack, Esq., Hon. Jeremiah Northup, Prof. Lawson, and Alex. McLeod, Esq., \$500 each.

The following subscriptions have been made to the Building Fund :

Rev. Louis H. Jordan, \$1000; John Duell, John S. Maclean, R. Sedgewick, \$750 each; Thomas Bayne, John McNab, Adam Burns, Hon. R. Cook, Dr. Avery, \$500 each; President Forrest, \$75; James Forrest, \$300; Prof. John Johnson, Peter Jack, Wm. Miller, Prof. Macdonald, \$250 each; Prof. MacGregor, A. & W. Mackinlay, \$225 each; Prof. Alexander, Judge Graham, \$200 each; James Scott, R. K. Sæster, Rev. John McMillan, Wm. Robertson, J. C. Mackintosh, H. McDi. Henry, John V. Payzant, Pearson, Morrison & Forbes, \$150 each; J. J. Stewart, \$120; Rev. E. Scott, Peter Ross, H. W. C. Cook, Pictou Academy, \$100 each; Wm. B. Wallace, Arthur Drysdale, E. L. Newcombe, Alfred Costley, H. W. Barnes, Hugh McKenzie, \$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, \$10,640.

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

Hon. Sir Wm. Young, \$500; John Duell, Esq., \$400; J. S. Maclean, Esq., \$300; J. F. Avery, Esq., M. D., \$150; Fleming, Esq., C. M. G., Rev. Principal Grant, D. D., W. J. Stairs, Esq., Thos. Bayne, Esq., John Gibson, Esq., Rev. J. McMillan, R. D., and John McNab, Esq., \$200 each; James Scott, Esq., and A. K. Mackinlay, Esq., \$180 each; Hon. R. Cook, and the Medical Faculty, \$100 each; Rev. President Forrest, D. D., Hon. A. G. James, and Geo. Thomson, Esq., \$150 each; A. Burns, Esq., \$125; J. J. Beaman, Esq., \$120; R. H. Collins, Esq., J. Donaldson, Esq., Prof. J. DeMill, Prof. J. Johnson, Prof. G. Lawson, Prof. J. Lisclth, Alex. McLeod, Esq., Robt. Morrow, Esq., Hon. Jeremiah Northup, Joseph Northup, Esq., T. A. Ritchie, Esq., Rev. Principal Ross, D. D., Ed. Smith, Esq., R. H. Skimmings, Esq., John Stairs, Esq., James Thomson, Esq., and Hon. Sir Charles Tupper, \$100 each; J. W. Carmichael, Esq., Geo. D. Hunter, Esq., Major General Laurie, Messrs. Lawson, Harrington & Co., Prof. C. Macdonald, J. P. Mott, Esq., and Hon. Judge Ritchie, \$80 each; G. P. Mitchell, Esq., and Hon. S. L. Shannon, \$60 each; J. B. Duffus, Esq., R. W. Fraser, Esq., Peter Jack, Esq., and W. H. Neal, Esq., \$50 each; with smaller sums amounting to \$1340.

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

Hon. Sir William Young, \$600; Prof. J. G. MacGregor, \$300; The Alumni Association, \$100; J. F. Avery, Esq., M. D., Thomas Bayne, Esq., Hon. R. Cook, Alex. McLeod, Esq., John McNab, Esq., Hon. Jeremiah Northup, W. J. Stairs, Esq., and W. P. West, Esq., \$100

each; Thos. A. Brown, Esq., Messrs. Duell & Miller, Messrs. Esmon & Co., John Gibson, Esq., Peter Jack, Esq., Prof. G. Lawson, J. S. Maclean, Esq., Robert Morrow, Esq., Hon. J. W. Ritchie, James Thomson, Esq., and a friend, \$80 each; with smaller sums amounting to \$645.

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

In addition to the members of the present staff, the following have been Professors or Lecturers in the University:

REV. THOMAS MCCULLOCH, D. D., 1838-43, President, and Professor of Moral Philosophy, Logic and Rhetoric.

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W. J. ALEXANDER, B.A., Ph. D., now Prof. of English in the University of Toronto, 1884-89, Professor of English Language and Literature.

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§ I.—Courses of Instruction.

I.—CLASSICS.

(McLeod Professorship.)

Professor JOHN JOHNSON, M. A.
Tutor JAMES C. SHAW, B. A.

FIRST YEAR LATIN CLASS.

Professor's Class—Mondays, Wednesdays, and Fridays, 10—11 A.M.—
After Christmas the class is conducted by the Tutor.

; Tutorial Class—Mondays and Wednesdays, 12 N.—1 P. M.

Subjects of study:

Cicero: *Pro lege Manilia*. (Wilkin's, Macmillan, N. Y.). **Pro Milone*. (Parsons', add. by Macmillan, N. Y.). Virgil: *Æneid*, Book V. (Calvert's, Macmillan, N. Y.). Composition: Arnold's Latin Prose by Bradley, (Livingtons, London). Grammar: Syntax and Prosody (Allen and Greenwood's, Ginn, Boston.) History: Roman History (Smith's, Harpers, N. Y.)

* The Tutor will also be in the Library two or three times a week, from 3 to 5 p. M., when he may be consulted by students with reference to their studies.

* Students seeking a First or Second Class Distinction are examined in this additional subject. An "honors" passage will also be set for translation.

Second Year Latin Class.

‡ *Monday, Wednesday and Friday, 11 A. M.—12 M.*

Subjects of study:

Horace: Odes, Books I, II, III, (Page's, Macmillan, N. Y.).
Livy: Book I, (Stephenson's, Macmillan, N. Y.). Composition:
Easy pieces for Latin Prose, Second Series, (Champeroy and Randall,
Livingtons, London). History: Grecia History, (Smith's smaller
edit., Harpers, N. Y.).

Third and Fourth Year Latin Class.

Monday, Wednesday and Friday, 12 M.—1 P. M.

Subjects of study in alternate years:

For 1890-91.—Horace: Selected Satires, (Maclean's small ed.,
Whittaker, London.) Tacitus: Annals, Bk. I, (Furneaux's, sold by
Macmillan, N. Y.).—Composition: Bennett's Second Latin Writer,
(Livingtons, London). † Tacitus: Annals, Bk. XIV. † Merivale's
Hist. of the Romans, chaps. xxx, xxxi, xxxii, xxxiii-xvii.

For 1891-92.—Tolstoi: Agricola (Chubb & Brodribb's, Macmillan,
N. Y.). Plautus: Captivi (Lindsay's, sold by Macmillan, N. Y.).
Juvenal: Satires III, X, XIII, (Hardy's, Macmillan, N. Y., 5c.).
—Composition: Bennett's Second Latin Writer, (Livingtons, London.).
† Cicero: Selected Letters, (Pichard and Bernsed, sold by Macmillan,
N. Y.). † Roman Provincial Administration by Arnold.

First Year Greek Class.

Tuesday and Thursday, 10—11 A. M.; Friday, 12 M.—1 P. M.

‡ (Conducted by the Tutor.)

Subjects of study:

Lucian: Selections, (Abbott's, Livingtons, London.) * Xenophon:
Cyropaedia, Book I, (Higg's, sold by Macmillan, N. Y.). Composition:
Elementary Greek Prose Composition, by Fletcher & Nicholas, pub.
by W. Ballie, Kingston, Ont.; introductory rules; oral and *written
exercise.—Grammar: Accidence, (Goodwin's, Ginn & Co., Boston.)

Second Year Greek Class.

‡ *Tuesday and Thursday, 11 A. M.—12 M.*

Subjects of study:

Homer: Odyssey, Book IX, (Edward's, sold by Macmillan,
N. Y.). Xenophon: Hellenica, Book I, (Underhill's, sold by Mac-
millan, N. Y.). *Demosthenes: Olynthica, (Heslop's, Livingtons,
London.).—Composition: As in First Year's Class; also Sidgwick's
Introduction to Greek Prose Composition.

* Students seeking a First or Second Class Distinction are examined in this
additional subject. An "unseen" passage will also be set for translation.

† For private reading for a First Class. An "unseen" passage will also be set
for translation for a First or Second Class.

‡ 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 Year Greek Class.

Tuesday and Thursday, 12 M.—1 P. M.

Subjects of study in alternate years:

For 1890-91.—Demosthenes: Philippica, I, II, III, (Tarbell's, Ginn
& Co., Boston.) Euripides: Medea, (Verral's, Macmillan, N. Y.).—
Composition: Sidgwick's Introduction to Greek Prose Composition;
oral and *written exercises. † Philology: Peile's Primer of Com-
parative Philology. † Euripides: Hecuba.

For 1891-92.—Plato: Apologia Socratis, (Adam's, sold by Mac-
millan, N. Y.). Aeschylus: Prometheus Vincetus (Pritchard's, sold by
Macmillan, N. Y.).—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. † Plato:
Republic, Book I.

Advanced Course.

Twice or three times a week.

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

II.—MODERN LANGUAGES.

(McLeod Professorship.)

Professor JAMES LUCIUS, M. A.

First French Class.

Tuesday and Thursday, 3-4 P. M.

Subjects of study:

Macmillan's *Progressive French Reader*, II year, (Fasnacht).
Molière: *Le Bourgeois Génevois*, (Macmillan & Co.) or Serfice:
Le verre d'eau. Exercises in Grammar and Composition.

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

Second French Class.

Tuesday and Thursday, 2-3 P. M.

Subjects of study:

Molière's: *L'Avare*. Racine: *Esther*, (Macmillan & Co.) Cor-
neille: *Othon*. Translation from English writers. Exercises in
Syntax. Translation of passages (not prescribed) from Modern authors.

* Students seeking a First or Second Class Distinction are examined in this
additional subject. An "unseen" passage will also be set for translation.

† For private reading for a First Class. An "unseen" passage will also be set
for translation for a First or Second Class.

Molière's *Misanthrope* (Macmillan & Co.) and either Saintine's *Picciotto* or Madame de Staël's *L'Allemagne* are prescribed for private reading to candidates for a First Class position.

Text Books: As in First Class. Outlines of the history of French literature (Salsbery's Primer).

Third French Class.

Tuesdays and Thursdays, 9—10 A. M.

Subjects of study:

From 1890-91.—Molière: *Les Femmes savantes*. Racine: *Œdipe à Colonne*. Corneille: *Le Cid*. (Clarendon Press). Translations from English writers. Original essays. Translation of passages (not prescribed) from Modern authors.

From 1891-92.—Molière: *Les Précieuses ridicules*. Racine: *Œdipe*. Corneille: *Horace*. Translations from English writers. Original essays. Translation of passages (not prescribed) from Modern authors.

Molière's *Tartuffe* (Macmillan & Co.) and either: Victor Hugo's *Les Travailleurs de la mer* (Livingtons) or: Scribner's *Extrême et Raïons* are prescribed for private reading to candidates for a First Class position.

Text Books: Bensch's Public School French Grammar. Salsbery's Short History of French Literature.

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.) Gustav Freytag: *Die Journalisten*. Exercises in Grammar and Composition.

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

Second German Class.

Mondays, Wednesdays and Fridays, 2—3 P. M.

Subjects of study:

From 1890-91.—Goethe: *Egmont*. Schiller: *Marie Stuart*. (Macmillan & Co.). Translations from English writers. Original compositions. Translation of passage (not prescribed) from Modern authors.

From 1891-92.—Goethe: *Hermann und Dorothea* (Clarendon Press). Lessing: *Missa von Barakel* (Macmillan & Co.). Translations from English writers. Original compositions. Translation of passages (not prescribed) from Modern authors.

Schiller's *Jungfrau von Orléans*, and either Heine's *Prosa* (Macmillan & Co.) or Schiller's *Historische Skizzen* (Clarendon Press),

are prescribed for private reading to candidates for a First Class position.

Text Books: As in First Class. *Critical Outline of the Literature of Germany* (By Ad. Sola, Ph. D.—LONGMAN, GREEN & Co.).

Third German Class.

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

Subjects of study:

For 1890-91.—Lessing: *Missa von Barakel* (Macmillan & Co.) Goethe: *Über die Buchkinder* (Macmillan & Co.). Prose composition. Lectures on German Literature.

For 1891-92.—Lessing: *Nathan der Weise*. Goethe: *Egmont*. Prose composition. Lectures on German Literature.

Schiller's *Wallenstein's Tod*, (George Bell & Sons, and either Goethe's *Faust*, part I. (by Jane Lee; Macmillan & Co.) or Heine's *Harzreise* (Macmillan & Co.), are prescribed for private reading to candidates for a First Class position.

Text Books: As in Second Class.

III.—ENGLISH LANGUAGE & LITERATURE. †

(George Munro Professorship.)

Professor ARTHUR MACMURRAY, Ph.D.

First Year Class.

Tuesdays and Thursdays, 12—1 P. M.

General Principles of Composition. Characteristics of Style. Exercises, weekly, throughout the year.

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:—

Depledge: Mac Flecknoe, St. Cecilia's Day, Alexander's Feast, *Abelemo and Achitophel. *Addison:* Select Essays. *Pope:* Rape of the Lock. *Essay on Man. *Johnson:* Life of Pope, *Lives of Dryden, Addison and Gray. *Gray:* Elegy. *Goldsmith:* Traveller, Deserted Village, *Select Essays. *Burns:* Two Dugs, Cotter's Saturday Night. *Macaulay:* Samuel Johnson.

Two reports on private reading, assigned by the instructor, are required from each student.

Books recommended: Nichol's Composition Primer (Macmillan); Clarendon Press Edition of Depledge; Hall's Larger English Prose (Macmillan)—which contains all the poetry read in the class.

† The syllabus in this subject may be altered at the opening of the Session.

* Candidates for First Class will be examined in these additional works, which will not be read in 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: As You Like It, Romeo and Juliet, "Midsummer Night's Dream," Henry V., Macbeth, The Merchant of Venice, "Julius Caesar," The Tempest. *Milton:* Comus; Paradise Lost, Bks. I—IV.

One written report on a special piece of work, assigned by the instructor, is required from each student. Candidates for First Class are required to present two such reports.

Books recommended: Bell'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.

1890-91.—*Classics:* Prologue, Knight's Tale and Neene Presto's Tale. *Sweet's Middle English Primer, II.* *Spenser:* Faerie Queen, Bks. I, II. *Morison:* Dr. Faustus.

History of Literature: Yon Eriek.

1891-2.—*Scott:* Waverley, Marmion. *Eggs:* Childe Harold *Hervesscott:* Poems selected and edited by Matthew Arnold. *Tompson:* Rows & Wells's selections. *Browning:* My Last Duchess, Lost Leader, Andrea del Sarto, The Bishop Orders his Tomb, Epistle to Keatsish. *Realis:* Sesame and Lilies. *Carlyle:* Sartor Resartus. *History of Literature: Oliphant.*

Candidates for First Class will be examined in the work laid down for the first half of the special English course, for that year (§ IX, 6.)

Advanced Class.

Development of English Language and Literature to the year 1300, with special study of select works (§ IX, 6.)

IV.—HISTORY AND POLITICAL ECONOMY.

(George Munro Professorship.)

Professor *REV. PRESIDENT FURBER.*

Third Year History Class.

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

Subjects of study:

Medieval History and Modern History to 1550.

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; Bryce's Holy Roman Empire; Irving's Mahomet and his Successors; Gibbon's History of Civilization; Rickwood's History of the Crusades; Robertson's Charles V.; Stub's Constitutional History of England.

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

Candidates for First Class will be examined on Hallam's Middle Ages, Bryce's Holy Roman Empire, and Introductory Sections of Robertson's Charles V.

Fourth Year History Class.

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

Subjects of study:

Modern History from 1550.

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.

Books recommended: Green's England, vol. IV.; Guizot's France (Masson's Abridgement); Meusel's Germany; Metley's Dutch Republic; Baseroff's United States; Parkman's France and England in North America.

Candidates for First Class will be examined on Green and Guizot, and a few chapters to be specified in the others.

Advanced History Class.

Once a week.

Subjects of study:

English History from 1603 to 1688.

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

This class is intended especially for undergraduates taking the Special Course in English and English 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 on prescribed reading.

A knowledge of the history and bibliography of the subject as presented in Coats's "Guide to the study of Political Economy" will be required of students seeking First Class Distinction.

Text Book: MIT'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 reading prescribed in the works of leading writers on the subject.

V.—METAPHYSICS AND ETHICS.

(George Moore Professorship.)

Professor JAMES SEER, M. A.

Metaphysics.*

Mondays and Wednesdays, 10—11; Fridays, 9—10 A. M.

After an introductory account of the nature and scope of Philosophy, in its various departments, the chief types of metaphysical theory will be expounded in the light of their historical development, and subjected to critical examination, viz.:—I. Dualism (a) of the Scottish Common-Sense Philosophy, (b) of Locke, (c) of Cartesian speculation; II. Materialism, ancient and modern; III. Idealism, (a) Platonic and Aristotelian, (b) Berkeleyan, (c) Kantian, (d) Hegelian.

The work of the class will be conducted mainly by lectures, but will also embrace essays, exercises, and special readings, as well as free discussion of the subjects of the course.

Text Book: Herbert Baxter's *Handbook to the History of Philosophy* (Dun. Bell & Sons.)

Recommended: Schwegler's, Edzmann's and Vaberg's *Histories of Philosophy*.

Ethics (Third and Fourth Years)

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

This course will consist of (1) an introductory account of the province and method of Ethics and its relation to other branches of Philosophy, and a consideration of the two aspects of man's life as a member of society and as an individual; (2) a discussion of the ethical postulate, or *Freedom*; (3) a critical examination of the chief modern theories of the ethical End, viz.: the Intentional, the Utilitarian, and the Transcendental.

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

The following additional reading will be expected from candidates for First Class Distinction:—Aristotle's *Ethics*, Bks. I, II, III, ch. 1-5, X; Kant's *Fundamental Principles of the Metaphysic of Morals*; Green's *Prolegomena to Ethics*, Bks. II and III, ch. I.

Senior Philosophy.

These lectures per week.

This course will consist of (a) a series of lectures on Greek Philosophy, with special reference to Plato and Aristotle; (b) a critical study of Hegel's *Logic* (Wallace's translation), in its relation to the philosophy of Kant.

* This course may not be given in 1890-91.

VI.—LOGIC AND PSYCHOLOGY.

Professor

The arrangements for the future conduct of this class will be announced at the beginning of next session.

VII.—MATHEMATICS.

Professor C. MCDONALD, M. A.

Tutor A. M. MERRISS, B. A.

First Year Class.

Daily, 11 A. M.—12 M.

Subjects of study:

ALGEBRA.—Involution, Evolution, Theory of Indices, Equations of the First and 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 the Fifth, and the 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 Lectures, 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:—Colson's or Toddhunter's or Deighton's, George Bell & Sons' *Elements of Euclid*; Toddhunter's *Algebra*; Bell & Knight's *Higher Algebra*. (The latter book is recommended to those who wish to pursue advanced work. Toddhunter's small *School Algebra* is a necessary adjunct for the course.)

Second Year Class

Daily, 10—11 A. M.

There are two Divisions in this class, the Lower and the Higher.

(1.) In the Lower Division, the subjects of study are—

GEOMETRY.—Sixth Book of Euclid revised; Drew's *Conic Sections*, the *Parabola*; Easy Geometrical Exercises, with practical applications; 21 Propositions of the Eleventh Book of Euclid.

TRIGONOMETRY.—Analytical Plane, as far as, but exclusive of, DeMoivre's Theorem. The use of Logarithms, and of the chief Mathematical Tables. Solution of Plane Triangles; Mensuration of Heights and Distances; Elementary Problems in Navigation.

ALGEBRA.—Permutations and Combinations; use of the Binomial Theorem; Properties of Logarithms; Compound Interest; Notation; Elements of the Doctrine of Chances.

(2.) In the Higher Division, the subjects are—

GEOMETRY.—Parabola, Ellipse, and Modern Extensions of Euclid.

TRIGONOMETRY.—As in the Lower Division, with Extensions; DeMoivre's Theorem, with Higher Angular Analysis; Spherical Trigonometry, as far as the solution of Right-angled Triangles, with applications to easy Astronomical problems.

ALGEBRA.—Investigations connected with the subjects studied in the Lower Division, with Illustrations and examples of a more difficult kind. For First or Second Class at the Examinations, acquaintance with the subjects treated in this Division is necessary.

Announcement will be made at the beginning of the Session, of the number of meetings per week of the Lower Division.

The Higher Division meets, throughout the Session, two days a week.

The Tutor will be in the Library two or three times a week from 3 to 5 p. m., when he may be consulted by students with reference to their studies.

Books recommended.—Algebra.—Tutor's or Hall and Knight's (best). * Lock's Plane Trigonometry; Cajori's and Wilson's Geometrical Conics (Macmillan & Co.); Quaker's *Lectures*, &c., Tables. For Higher Division.—Tutor's Spherical Trigonometry; Casey's *Synopsis* to First Six Books of Euclid, (Longman, Green & Co., London.)

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; Theory of Equations; Differential Calculus.

Books recommended.—Lock's Plane Trigonometry; G. Smith's and Tutor's *Conic Sections*; Tutor's *Theory of Equations*; Williamson's *Differential Calculus*; Williamson's *Integral Calculus*; Tutor's *Spherical Trigonometry*. Any Standard Works on the subjects treated may, however, be used.

The Second Division meets twice a week.* Subjects: Spherical Trigonometry; Theory of Equations; Differential Calculus; Integral Calculus, with Differential Equations; Application of these to Physics, Physical Astronomy, &c.

Books recommended.—The same as for the First Division. Also, Tait & Steele's *Dynamics of a Particle*; Tutor's *Analytical Statics*; Boole's *Differential Equations*.

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

† This work is published in two volumes. The first of these—"A Treatise on Elementary Trigonometry"—is sufficient for the ordinary class.

VIII.—PHYSICS.

(George Meurs Professorship.)

Professor J. G. MacGIBSON, D.Sc.

Junior Physics Class.

Tuesdays, Thursdays and Fridays, 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, the mathematical knowledge assumed being no greater than may be acquired in the First Year Class.

Books recommended.—Students who aim at Distinction will be expected to read in connection with the lectures the following books: Balfour's *Elements of Dynamics* (This, Edinburgh), Goussut's *Elementary Treatise on Heat* (Doughty, Bell & Co.), Cumming's *Electricity Treated Experimentally* (Bellings), and DuRoi's *Natural Philosophy*, Ed. Everett, Part IV.—Sound and Light (Blackie & Sons). Other students are recommended to read Stewart's *Lectures in Elementary Physics* (Macmillan & Co.).

Senior Physics Class.

Monday and Wednesday, 10—11 A. M.

The subjects studied in this class will be the same as those of the Junior Class, with the omission of Dynamics; but they will be treated in a less elementary manner, a knowledge of the Mathematics of the Second Year Class being assumed. As the course is too extensive to be completed in one session, different departments of it will be taken up in alternate sessions.

In 1890-91 the subjects of the ordinary class work will be:—Gravitation, including such portions of observational Astronomy as are necessary for understanding the generalization of Kepler's Laws; Elasticity, as treated in the Professor's *Kinematics and Dynamics* (Macmillan & Co.); Sound, as treated in S. Taylor's *Sound and Music* (Macmillan & Co.); Light, as treated in Tait's *Light* (A. & C. Black.)—Candidates for First Class Distinction will be expected to acquire by private reading a knowledge of the elements of Heat and of Electricity and Magnetism, as contained in Maxwell's *Theory of Heat* (Longmans & Co.) Chaps. VI-XI and XXII, and S. P. Thompson's *Lectures in Electricity and Magnetism* (Macmillan & Co.).

In 1891-92 the subjects of the ordinary class work will be:—Heat, as treated in Maxwell's *Theory of Heat* (Longmans & Co.), and Electricity and Magnetism, as treated in Cumming's *Theory of Electricity* (Macmillan & Co.).—Candidates for First Class Distinction will be expected to acquire by private reading a knowledge of the elements of Sound and Light as contained in S. Taylor's *Sound and Music* (Macmillan & Co.), Chaps. I-VII, and Tait's *Light* (A. & C. Black), Chaps. VII-X and XIII-XV.

Dynamics Class.

Tuesdays and Thursdays, 10-11 A. M.

The lectures will be on the following subjects:

Kinematics (a) of a point, (b) of a rigid system of points.

Dynamics, including Kinetics and Statics, (a) of a particle, (b) of systems of particles, (c) of a rigid body.

Candidates for First Class Distinction will be expected to read privately the portions of the Text Book treating of the following subjects: Strains, Potential, and the Dynamics of flexible strings.

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

Advanced Mathematical Physics Class.

Monday and Wednesdays, 11 A. M. - 12 M.

This class is intended especially for undergraduates taking the Special Course in Mathematics and Physics, but other students having sufficient knowledge of Mathematics and Physics will be admitted.

The subjects studied will include all departments of Physics. The mode of treatment will be such as to give the student an introduction to the application of the higher mathematics to the study of physical problems. Students will be assumed to have a sufficient knowledge of Analytical Geometry and of the Differential and Integral Calculus, and to be familiar with the text-book of the Dynamics class. As the course is too extensive to be completed in a single session, different portions will be taken up in alternate sessions.

In 1890-91 the subjects treated will be:—Dynamics, the portions bearing on the doctrine of Energy; Thermodynamics; Electrodynamics (including Electrostatics).

In 1891-92 the subjects treated will be:—Kinematics of a point, of a rigid system, and of a deformable system; Dynamics (including Statics) of a particle, of systems of particles (including strings), of extended bodies, of rigid bodies, of elastic solids, and of fluids; Wave Motion, with application to Sound and Light.

Books recommended.—Students will be referred by the Professor to various works during the course. Those most frequently referred to will be: Tall and Steele's *Dynamics of a Particle* (Macmillan & Co.); Trillinger's *Analytical Statics* (Macmillan & Co.); Aldiss's *High Dynamics* (Dunlop, Bell & Co.); Basset's *Hydro-mechanics* (Dunlop, Bell & Co.); Tall's *Sketch of Thermodynamics* (Dunlop, Edinburgh); and Maxwell & Joubert's *Electricity and Magnetism* (the Macmillan Co., London), vol. I.

Practical Physics Class.

This class is intended especially for undergraduates taking the Special Course in Experimental Physics and Chemistry; but other students having sufficient knowledge of Physics will be admitted.

The work of the class will consist of the determination of physical constants, such as density, specific heat, electromotive force, electrical resistance, &c., and of simple physical laws.

Books recommended.—For *reference* and *illustration*—Glauber's and Swan's *Practical Physics* (Longmans, Green & Co.). For *reference*—Stewart & Gee's *Experimental Practical Physics* (Macmillan & Co.); Ayrton's *Practical Electricity* (Macmillan & Co.); Gray's *Electric Measurements*; D. Eissler's and Neumann's *Electricity* (Macmillan & Co.); and Kohlrausch's *Physical Measurements* II, & A. Churchill.

IX.—CHEMISTRY.

(McLeod Professorship.)

Professor.....GEORGE LAYNE, Ph. D., LL. D.

Inorganic Chemistry Class.

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

Subjects of lectures:

General Principles. Chemical Affinity. Laws of Combination, by weight. Equivalences. Laws of Combination, by volume. The Elements. Compounds. Atomsity. 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.—Greene's Edition of Wurtz's *Elements of Modern Chemistry*—the whole of the Inorganic part (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 Monatomic Alcohols, and related compounds and Derivatives; Aldehydes, Ethers, &c. The Fatty Acids. Compound Ethers. Polyatomic Alcohols, Ethers and Acids. Cyanogen and its compounds.

Aromatic Compounds. Benzene. Aniline Compounds. Terpenes. Alkaloids.

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

Text Book.—Greene's Edition of Wurtz's *Elements of Chemistry*—the Organic part. Reference works in the College Library will be recommended during the course.

Chemical Laboratory.

The Chemical Laboratory is open daily (except Saturdays) from 9 a. m. to 1 p. m. Students taking their first Laboratory course are required to attend at an hour when the Professor is not engaged in lecturing.

PRACTICAL CHEMISTRY.—Systematic Separation and Detection of the several Metallic Bases and of 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: Macdonald's Practical Chemistry, Fresenius's Qualitative Analysis, Goodwin's Text Book.

QUANTITATIVE ANALYSIS.—Instruction is provided in Quantitative Analysis, for students taking the Special Course 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 Metallic Ores, Coal, and other Mineral Substances, Fertilizers, Soils, Mineral Waters; Sanitary Examinations of Water, Air and Food; Detection and Quantitative Estimation of Poisons.

Laboratory students are allowed the use of the ordinary Laboratory apparatus and furnishings, and of inexpensive reagents, but are required to provide themselves with evaporating basins, test tubes, platinum, gold and silver salts, and other expensive materials which they may require, and to replace apparatus which they may destroy. Those who wish to work in special departments, or to engage in original research, will have to furnish themselves with the necessary apparatus.

Text Book—Fresenius's Quantitative Analysis. Special works in the College Library, will be recommended when necessary. A small Reference Library of books needed in actual work is kept in the Balance Room.

X.—BOTANY.

Professor..... GEORGE LAWSON, Ph. D., LL. D.

Evenings and Thursdays, 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. Experiments on living plants, in regard to transpiration, growth and movements, and the examination of tissues, cell development, &c., will be conducted in the Laboratory Balance Room.

Text Book—Goodale's Physiological Botany (vol. 2. of Gray's Botanical Text Book). *Field Book*—An Swenson's Herk. Gray's Manual of Botany at the Northern States; Gray's Herk Plants Grow, with Lawson's Fern Flora of Canada, as Appendix, (Macmillan).

§ II.—**The Academic Year.**—The academic year consists of one session. The session of 1890-91 will begin on Wednesday, 10th September, 1890, and end on Thursday, 23rd April, 1891.

§ 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 (§ xxiii).

(2.) Registered students may, on presentation of their Registration Tickets and on payment of the proper fees (§ xxiii), 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.

§ IV.—**Degrees.**—(1.) Three baccalaureate degrees are conferred in the Faculty of Arts, these, 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; v, 3; and vi, 2-3), and (b) matriculating, i. e., entering their names on the Matricula or Register as 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 therein.

(5.) Persons who may have appeared as candidates for Junior Museo Exhibitions and Bursaries may be admitted as Undergraduates of the First Year, without further examination, provided their examinations are approved by the Faculty. If their examinations are approved in some subjects but not in others, they may be admitted as Undergraduates on passing in the latter at the Final Matriculation Examination.

(6.) Undergraduates of other Universities may, on producing satisfactory certificates, be admitted *ad eundem status* 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 § xi.

§ V.—First Year Matriculation Examination.—

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

1 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 *Sexta Principia Latina*, Part iv., Ess. 1-35. One Latin book. The following books are recommended:

For 1890.—*Cæsar—Gallic War*, Books II and III; or *Virgil—Æneid*, Book II. *Composition*—As in *Arnold's*, by Bradley, Ess., 3-44.

For 1891.—*Cæsar—Gallic War*, Books IV and V.; or *Virgil—Æneid*, Book II. *Composition*—As in 1890.

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

For 1890.—*Isophras—Anabasis*, Book IV. or V. or VI.

For 1891.—*Isophras—Anabasis*, Book V. or VI. or VII.

FRENCH.—Voltaire: *Charles XII.*, Books I. and II.; or *Scribe, Bertrand et Batou (Coudélie)*—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 Schiller's *Der Nefe als Obed.* Act I. Grammar: Delections of the Articles, Nouns, and Adjectives.

N. E.—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. **ARITHMETIC AND ALGEBRA.**—*Arithmetic. Algebra*: Simple Rules, and Simple Equations of one unknown quantity, not involving surds.

4. **GEOMETRY.**—Euclid's Elements, Books I. and II.

5. **ENGLISH.—Language:** Grammar, Analysis, Writing from Dictation, Punctuation, Synthesis, Paraphrasing.

6. **HISTORY AND GEOGRAPHY.**—Outlines of English and Canadian History, and General Geography.

7.—**OPTIMAL SCIENCE.—INORGANIC CHEMISTRY.**—Nomenclature, Notation, Equivalent and Atomic Numbers. General Principles of Inorganic Chemistry. The Non-Metallic Elements, and their more important compounds. Candidates must be able to read chemical formulae and equations, so as to explain their meaning in words, and to express in formulae the composition of common salts, and, in form of equations, ordinary chemical reactions.

This subject is not required; but a candidate taking it will be exempted from attendance on the lectures of the Chemistry class until after the Christmas vacation.

The above examination may be conducted partly *in vivo*.

(2.) Candidates taking French or 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.) Candidates who hold Teachers' Licenses of Grade B, issued by the Nova Scotian Education Office, shall be exempted from the following subjects of the above Examination:—Latin, French, Arithmetic and Algebra, Geometry, English, and History and Geography, provided these subjects were included in the examination by which they gained their Licenses.—Candidates who hold Licenses of Grade A shall be allowed to matriculate as undergraduates of the First Year without examination.

(4.) Candidates who fail in a portion of the above Examination may, nevertheless, by special permission of the Faculty, be allowed to matriculate conditionally; but they will be required to pass in such portion at a subsequent date.

(5.) This examination will be held at the College on September 16th–18th, 1890. For the benefit of candidates unable to present themselves on these days an opportunity will be granted of appearing for examination on October 8th–11th. 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 must 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 § I (1), together with one additional book.

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

FRENCH.—The subjects of the First French Class, as specified in § I (11).

GERMAN.—The subjects of the First German Class, as specified in § I (11).

BOTANY.—The subjects of the lectures of the Botany Class, as specified in § I (18).

N. B.—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 § I (VII).

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 (§ I, III)—or the equivalents thereof.

5. HISTORY AND GEOGRAPHY.—The subjects of the First Year Matriculation Examination.

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

The above examination may be conducted partly *visu* *coram*.

(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 Examinations of the First Year, shall be exempt from further examination therein.

(3.) Candidates who hold Teachers' Licenses of Grade B, issued by the Nova Scotian Education Office, shall be exempted from the following subjects of the above Examination:—The subjects of the First Year Matriculation Examination in English, and History and Geography.—Candidates who hold Licenses of Grade A, shall be exempted from Latin, Greek, Mathematics, the subjects of the First Year Matriculation Examination in English, History and Geography, and Inorganic Chemistry, provided these subjects were included in the examination by which they gained their Licenses.

(4.) Candidates must give at least one fortnight's notice to the President, of their intention to appear at this examination;

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

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.

(5.) This examination will be held at the College on September 16th-18th, 1890. For the convenience of candidates unable to appear on these days, an opportunity will be granted of appearing for examination on October 8th-11th. But no student will be allowed to enter as an undergraduate at a later date, without the special permission of the Faculty.

§ VII.—Ordinary 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 ordinary courses for B. A. and B. L. The details of the subjects studied in these classes, will be found under Courses of Instruction (§§ I, XXIV and XXXV).

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. For B. A.—Mathematics. For B. L.—Mathematics or Junior Physics.
4. English.
5. Junior Philosophy.

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. For B. A.—Junior Physics. For B. L.—Junior Physics or any one of subjects 4—5. (Junior Physics must be taken either in the Second or Third Year).

3. History.

4—5. Any two of the following*:

- | | |
|---------------------------|--------------------------|
| a. Greek. | g. Political Economy. |
| b. Hebrew. | h. Ethics. |
| c. French. | i. Senior Philosophy. |
| d. German. | j. Dynamics. |
| e. English, † | k. Organic Chemistry, or |
| f. Constitutional History | l. Medical Chemistry. |
| • (Law Faculty.) | m. Botany. |

Undergraduates are required, on or before September 18th, 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 recognised 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 recognised College will exempt an undergraduate from one of the two subjects, 4-5.

Fourth Year.

Any five of the following* :—

- | | |
|-------------------------|--------------------------|
| a. Latin. | k. Constitutional Law |
| b. Greek. | (Law Faculty.) |
| c. Hebrew. | l. Contracts |
| d. French. | (Law Faculty.) |
| e. German. | m. Senior Physics. |
| f. English, † | n. Practical Physics. |
| g. History. | o. Dynamics. |
| h. Political Economy. ‡ | p. Organic Chemistry, or |
| i. Ethics. | Medical Chemistry. |
| j. Senior Philosophy. | q. Practical Chemistry. |
| | r. Botany. |

Undergraduates are required, on or before September 18th, to submit to the President for approval, the names of the subjects which they may wish to select.

* So far as the provisions of the Three Tables permit.

† See Syllabus of English Classes (H. 11.)

‡ The Advanced Class may be taken as an ordinary class in the Fourth Year. (See § I. 11.)

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 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.

A certificate of attendance on a New Testament Greek class in any recognised College, will exempt from one subject an undergraduate who has taken Greek during the first three years.

A certificate of attendance on a class in Hebrew in any recognised College will exempt from one subject. If the Hebrew class be one of 5 hours a week, attendance on it will exempt from two subjects.

No class in which the subjects studied are the same from year to year, can be taken twice as part of the course.

§ VIII.—Ordinary 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. and XXXVI.)

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.
5. Junior Philosophy.

Third Year.

1. The modern language not chosen as subject 1 in the first two years.

2. Physics.
3. Dynamics.

4-5. Either Advanced Mathematics or Organic and Practical Chemistry.

Fourth Year.

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

α. French.	f. Practical Chemistry.
β. German.	g. Practical Physics.
γ. History.	h. Ethics.
δ. Political Economy.	
ε. Organic Chemistry or Medical Chemistry.	

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

No class in which the subjects studied are the same from year to year, can be taken twice during the Course.

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

(2.) Special Courses are provided in the following departments,* viz., (1) Classics, (2) Latin and English, (3) Greek and English, (4) English and English History, (5) Philosophy, (6) Mathematics and Mathematical Physics, (7) Experimental Physics and Chemistry. Undergraduates in Arts may take special courses 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.) An undergraduate taking a special course in any of the above departments shall be required to attend the Advanced Classes provided in the subjects of such departments (§ 1), to make progress satisfactory to the Professors who conduct such classes, and to pass the examinations in the subjects of such department. He shall be allowed to omit, from the subjects of the ordinary course, certain subjects specified below, and

* The provision of a Special Course in Modern Languages (including English, French, and German) is under consideration, and may be made for the Session of 1895-96.

may select as his ordinary classes in any year, any of the classes of that year, subject to the approval of the Faculty.

(4.) The examinations in the subjects of the Special Course shall be held at the end of the Fourth Year.

(5.) Undergraduates taking the Special Course 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.

I. Candidates will be required to have a critical knowledge of the following works:

- Plautus: Miles Gloriosa.
Terence: Adelphi.
Virgil: Georgics, Books I., II.; Ars Poetica.
Horace: Epistles, Books I., II.; Ars Poetica.
Juvenal: Satires, VII., VIII., XIV.
Cicero: De Oratore, Books I., II.
Livy: Books XXI., XXX.
Tacitus: Germania; Annals, Book II.

II. Candidates will be required to show a general knowledge of one prose and one verse subject, to be chosen by them from the following list:

- Plautus: Trinummus, Aulularia.
Terence: Andria, Heautontimorumenos.
Juvenal: The Satires not read in class, (Hardy's edit.) In 1892, Persius' Satires in addition.
Cicero: Select Letters, (Muirhead's edit., Livingtons, London).
Livy: Books II., III., IV.
Tacitus: Historiae, Books I., II.

III. COMPOSITION.—Prose.

IV. LITERATURE.—Crutwell's History of Latin Literature, selected chapters.

V. PHILOLOGY.—Pell's Introduction to Greek and Latin Etymology; Comparative Philology by Postleth.

GREEK.

I. Candidates will be required to have a critical knowledge of the following works:

- Aeschylus: Eumenides.
Sophocles: Oedipus Rex.
Aristophanes: The Knights.
Homer: Odyssey, Books V., VI., VII., VIII.
Thucydides: Book II.
Plato: Phaedo.
Demosthenes: De Corona.
Aristotle: Poetics.

II. Candidates will be required to show a general knowledge of one prose and one verse subject, to be chosen by them from the following list:

Aeschylus: Agamemnon, Choephorae.
 Sophocles: Oedipus Coloneus, Antigone.
 Euripides: Hecuba, Bacchae, Hippolytus. In 1892, Phoenissae
 instead of Hecuba.
 Herodotus: Any two books, excluding the Second.
 Thucydides: First and 8-10th Books.
 Aeschines and Cicero: Ctesiphontem.
 Demosthenes: 1 De Falsa Legatione.

III. COMPOSITIONS.—Prose.

IV. PHILOLOGY.—Pell's Introduction to Greek and Latin Etymology; Comparative Philology by Papius.

V. 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. In 1892, Haigh's Theatre of the Greeks instead.

(6.) Undergraduates taking the Special Course 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 undergraduates taking this Special Course, not as an ordinary subject but as a part of the Special Course. They shall be examined in the following subjects, viz:

LATE.

The Latin subjects prescribed for the Special Course in Classics.

ENGLISH.

The historical development of the language and literature to the year 1300. *First Half-Course*: Sweet's Anglo-Saxon Reader (exclusive of poetical selections), Siemes, O. E. Grammar, trans. by Cook, Part II. *Second Half-Course*: Morris, Specimens of Early English, I, and Lombard, History of the English Language.

History of the Elizabethan and Early Stuart Literature. *First Half-Course*: Marlowe, Edward II. Webster, The Duchess of Malfi. Greene, Friar Bacon and Friar Bungay. Shilley, Apologue for Poetrie. Hooker, Ecclesiastical Polity, Book I. *Second Half-Course*: Bacon, Advancement of Learning, Select Essays. Shakespeare, Henry VI., Pt. II. and III., Romeo and Juliet, Lear, Henry VIII., Two Noble Kinsmen.

Books recommended: History of Literature: Salisbury. Clarendon Press—*Modern* and *Other Editions* of Elizabethan works.

(7.) Undergraduates taking the Special Course 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 undergraduates taking this course, not as an ordinary subject, but as a part of the Special Course. They shall be examined in the following subjects, viz:

GREEK.

The Greek subjects prescribed for the Special Course in Classics.

ENGLISH.

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

(8.) Undergraduates taking the Special Course 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 undergraduates taking this course, not as an ordinary subject, but as a part of the Special Course. They shall be examined in the following subjects, viz:—

ENGLISH.

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

ENGLISH HISTORY.

A minute investigation of English History from A. D. 1600-1689.

Books recommended: Green's History of the English People, Vol. 3; Lingard's History of England, Vols. 1-16; Hallam's Constitutional History of England, Chap. VI-XIV; Baker's History of England; S. E. Gardner's Works on this Period; Clarendon's History of the Great Rebellion; Masson's Life of Milton; Carlyle's Life of Cromwell; Foxe's Life of Eliot; Bayne's Chief Actors in the Puritan Revolution.

(9.) Undergraduates taking the Special Course in Philosophy may in each of the Third and Fourth Years of their Course omit any one of the subjects of those years except Senior Philosophy and Ethics, which must be taken in the Third Year. They shall be examined in the following subjects:—

Plato's Theaetetus and Republic, (omitting Books VIII. and IX.)
 Aristotle's Nicomachean Ethics, (omitting Books VI. and VII.)
 Locke's Essay on Human Understanding: Books II. and IV.
 France's Selections from Berkeley.
 Hume's Treatise on Human Nature, vol. I. (with Green's Introduction).
 Kant's Critique of Pure Reason and Critique of Practical Reason.
 Reid's Essays, VI.
 Bradley's Principles of Logic.
 Ladd's Elements of Physiological Psychology.
 Green's Prolegomena to Ethics.
 Spencer's Data of Ethics.
 Sidgwick's Methods of Ethics.

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

(10.) Undergraduates in Arts taking the Special Course 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. Undergraduates in Science may, in the Fourth Year, omit any one subject, except Physics. 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 treatise on those subjects. Differential Equations (selected course), with practical applications to Physical Problems.

MATHEMATICAL PHYSICS.

Either: Kinematics (a) of a point (b) of a rigid system, and (c) of a deformable system; Dynamics (including both Statics and Kinetics) (a) of a particle, (b) of systems of particles (including flexible strings), (c) of a rigid body, (d) of elastic solids, and (e) of fluids; and Wave Motion, with application to Sound and Light.

Or: Dynamics, the portions bearing on the doctrine of Energy; Thermodynamics; and Electrodynamics (including Electrostatics).

These subjects are to be treated by the application of analytical Geometry and the Differential and Integral Calculus.

(11.) Undergraduates in Arts taking the Special Course 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. Undergraduates in Science may, in the Fourth Year, omit any one subject, except Physics. The Dynamics Class must be taken in the Third Year. 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. The extent of knowledge required is such as may be obtained by a study of the following books :—MacGregor's Kinematics and Dynamics, (Macmillan & Co.); Tait's Properties of Matter, (A. & U. Black); S. Taylor's Sound and Music, (Macmillan & Co.); Aldis's Geometrical Optics, (Brighton, Bell & Co.); Lloyd's Wave Theory of Light, (Longmans); Maxwell's Theory of Heat, (Longmans); Stewart's Treatise on Heat, (Clarendon Press); Crookes's Theory of Electricity, (Macmillan & Co.), and S. F. Thompson's Elementary Lessons in Electricity and Magnetism, (Macmillan & Co.)

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. 1, pp. 123, 172, 298, 542, 632.—Faraday's

Experimental Researches in Electricity (Quaritch), vol. 1, Series III. IV., VI., VII., VIII.

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

CHEMISTRY.

ORGANIC CHEMISTRY.—Principles of Elementary Analysis, Practical Estimation of Carbon, Hydrogen, Oxygen and Nitrogen. Principles of Classification. Hydrocarbons, Chlorides, &c. Monatomic and Polyatomic Alcohols, Aldehydes, Volatile Fatty Acids, Compound Ethers, Ethers of Glycerine, Saponification, Organic Acids, Carbohydrates, Fermentation. Transformations of the Alcohol, and Laboratory Determinations. Atomic Group. Compound Ammonias, Alkaloids.

Books recommended: Watts's Chemistry, Organic part. Bunsen & Scherer's New 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) Qualitative Estimation of Metallic Ores, (2) do. 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: Mander's Practical Chemistry, Fresenius's Qualitative Analysis, Thorpe or Apjohn, Washburn's Mineral Analysis.

§ X.—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.) With the exception of persons who have qualified for matriculation at the Final Matriculation Examination (§§ v. (5), and vi. (5)), no undergraduate shall be allowed to register as such more than ten days after the opening of classes without the special permission of the Faculty.

(3.) Attendance on Tutorial Classes is compulsory in the case of undergraduates attending the ordinary classes in connection with which they are held; but the Professor may exempt them from such attendance.

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

§ XI. — **Examinations.** — (1.) Undergraduates are required to appear as candidates at the various examinations held in connection with the classes which they may attend as parts of their course, and to prepare such theses, essays, reports, &c., as are prescribed by the Professor. In all classes two examinations are held, one just before the Christmas vacation and the other after the close of lectures in the Spring. In some classes other examinations are held at dates appointed by the Professor. In the determination of the Pass List and in the award of Class Distinctions, which may be of two grades, 1st and 2nd class, the results of these various examinations and the degree of excellence shown in theses, essays, reports, &c., shall be taken into consideration.

General Students are admitted to the above Examinations as well as undergraduates, and their position in the Pass and Distinction Lists are determined in the same way.

Certificates are issued to members of each class stating with what degree of regularity they have attended and what standing they have attained.

(2.) Undergraduates who are exempted by § X. (4), from attendance on one or more classes, shall be exempted also from passing the 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 recognised 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 so such, except by special permission of the Faculty, to enter the classes of any year, unless he has passed in all the subjects of the previous year.

(5.) If an undergraduate fail to pass in one or two subjects in any year, he shall be allowed a Supplementary Examination in such subject or subjects at the beginning of any subsequent Session, on the day appointed for that purpose in the University Almanac, (September 15th, 1890.) For fee see § XXIII.

(6.) If an undergraduate fail to pass in more than two of the subjects of any year, he shall not, except by special permission of the Faculty, be allowed a Supplementary Examination.

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

(8.) A second Supplementary Examination in the same Session, shall not be granted, except by special permission of the Faculty.

(9.) If an undergraduate absent himself from either a Christmas or a Spring Examination, except for such cause as may be considered sufficient by the Faculty, he shall lose his Session.

(10.) If an undergraduate absent himself from either a Christmas or a Spring Examination, for reasons considered sufficient by the Faculty, he shall be granted a Special Examination on the day appointed in the Almanac for the Supplementary Examinations. For fee see § XXIII.

(11.) 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 § XXIII.

(12.) Undergraduates wishing to appear as candidates at any Supplementary or Special Examination 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 violate this rule he may be summarily expelled from the Examination room, and he shall be subject to such other penalty as the Faculty may see fit to impose.

§ XII.—**Degrees with General Distinction.**—Degrees with General Distinction will be conferred on undergraduates for special excellence shown at the Examinations of the Third and Fourth Years of any of the ordinary courses for degrees, the Mathematics of the Second Year being for the purposes of this rule regarded as a Third Year Class.

In awarding such Distinction the Faculty, while requiring that candidates shall attain a good standing in all their classes, will lay special stress on the attainment of a high standing in a few related subjects.

The Distinction awarded may be of the First or Second Rank.

§ XIII.—Degrees with Honours.—Degrees with Honours in any of the departments of study in which Special Courses are provided, will be conferred on undergraduates for special excellence shown at the Examinations in the subjects of such courses.

The Honours awarded may be of the First or Second Rank.

A candidate for Honours may defer his examinations in the subjects of his Special Course until a year after he has passed the 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 examinations of such Special Course.

§ XIV.—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, (§ § 1. and XXIV.)

(2.) To students who attend the classes of the following courses with regularity and pass the 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, and 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 Junior Philosophy; Physics or Inorganic Chemistry. (The alternative subjects so far as the Time table may permit.)

(4.) **Two Years Course of Literary and Scientific Studies.**—*First Year.*—French or German, English, Mathematics, Botany, Inorganic Chemistry. *Second Year.*—French or German, English Literature, Physics, Organic Chemistry, Practical Chemistry. This course is specially designed for students who intend to enter upon the study of chemistry or to engage in chemical industries.

(5.) **Three Years Course preparatory to the Study of Technology.**—*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 Journalistic Course.**—*First Year.*—French, English Literature (1st and 2nd Years classes), History (3rd and 4th Years classes), Junior Philosophy or Political Economy. *Second Year.*—French, Advanced English Literature, Ethics, Political Economy, Constitutional History, Constitutional Law.

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

§ XV.—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 in the department of Latin and English, or in that of Greek and English, or in some other department.

THE GOVERNOR-GENERAL'S SILVER 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 Mental and Moral Philosophy, the winners of other medals being excluded. In the event of its not being awarded in this department, it may be awarded in some other department.

THE SIR WILLIAM YOUNG GOLD MEDAL, founded by bequest of the late Hon. Sir William 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.

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 Examinations 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, 1892.

THE WAVERLEY 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 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. F. Avery, M. D., will be awarded on graduation to that member of the graduating class, who, during the Third and Fourth Years of his Course, has distinguished himself most among those taking the ordinary B. A. Course.

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 of the Special Course in English and English History.

THE NEW SHAKSPEARE 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 Shakspeare at the Examinations of the Second Year in English Literature.

§ XVI.—Munro Exhibitions and Bursaries.—

(1) The following Exhibitions and Bursaries are offered by Geo. Munro Esq., of New York, to be competed for at the beginning of the Sessions of 1890-91 and 1891-92, viz. :—

- Five Junior Exhibitions of \$150 a year, tenable for two years.
- Ten Junior Bursaries of \$103 a year, tenable for two years.
- Five Senior Exhibitions of \$150 a year, tenable for two years.
- Ten Senior Bursaries of \$203 a year, tenable for two years.

(2) The *Junior Exhibitions and Bursaries* are offered for competition to candidates for matriculation in Arts or Science, provided they have previously neither matriculated* at any University conferring degrees in these departments, 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 B. A. and B. Sc. Courses. Candidates must have completed the Second Year of their 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, to the satisfaction of the Faculty, the classes proper to the first and second years of the B. A. or B. Sc. Course, Greek being taken as one of the subjects of each of those years if the holder select the B. A. Course; (b) † pass in all the subjects of the First Year, and attain a Second Class standing in at least one of them, and (c) pass in the subjects 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 B. A. or B. Sc. Course, provided the holder (a) attend in consecutive years, to the satisfaction of the Faculty, the classes proper to the third and fourth years of his Course, (b) pass in all the subjects of the third year, and either obtain a Second Class standing in one of them or obtain the favourable report of a Professor on work done in one of the Special Courses, and (c) pass in the subjects 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 letter addressed to the President, and sent so as to reach him on or before September 1st, 1890. In making such application they must send (a) a statement signed by themselves to the effect that they are not precluded by any of the conditions of § XVI (2) or (3), from competing for these Bursaries, and (b), if they have not already been students at this College, a certificate of good moral character signed by a clergyman or other person occupying a public official position.

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

† For the purpose of condition (6), Geometry and Algebra shall be reckoned as separate subjects.

(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 9th-12th, 1890.

(12.) The subjects of examination for the *Junior Exhibitions and Bursaries* of 1890-91, shall be as follows:—

1. **LATIN.**—*Cæsar*, *Gallie War*, Books II and III, and *Virgil*, *Æneid*, Book II.—*Grammar*: *Accidence*, *Prosody*, *Scansion*, of *Hexameter Verse*. **Text Book*: *Smith's Latin Grammar*.—*Prose Composition*: As in *Arnold's Latin Prose Composition* by *Bradley*, *Ess.* 1-44.

2. **GREEK.**—*Xenophon*, *Anabasis*, Books IV., V., and VI. *Grammar*: *Accidence* (omitting accentuation), chief rules of *Syntax*. **Text Book*: *Smith's Greek Grammar*.—*Prose Composition*: As in *Fletcher and Nicholson*, (*A. Bailie*, *Kingston*, *Ont.*) *Ess.* 1-28.

3. **MATHEMATICS.**—*Arithmetic*: the ordinary rules of *Arithmetic*, *Vulgar* and *Decimal Fractions*, *Proportion* and *Interest*.—*Algebra*: as far as *Simple Equations* and *Surds*, 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*, *Paraphrasing*.—*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*, 500.

(13.) The subjects of Examination for the *Senior Exhibitions and Bursaries* of 1890-91 shall be any two of the following groups:—

A.—CLASSICS.

LATIN: *Hærodes*, *Epodes*; *Pliny*, *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 *Champney's* and *Rendall's Easy Pieces for Latin Prose*, 2nd series, *Rivingtons*, *London*.)

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

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

† The classical books for 1890-92 will be as follows:—

Latin:—*Cæsar*; *Gallie War*, Books IV. and V., *Virgil*: *Æneid*, Book II. **Greek:**—*Xenophon*: *Anabasis*, Books V., VI., VII. As "chosen" prose passages in both Latin and Greek will be set for translation at the entrance in 1891.

In 1891-92, the subjects will be as follows:—

LATIN: *Hærodes*, *Odes*, *Book IV.* *Cæsar*, *Selected Letters*, (*Prichard and Bernard's* edition, sold by *Macmillan*, *N. Y.*) An "chosen" passage will also be set for translation. *Composition* as above.

GREEK: *Hærodes*, *Book VI.* (*Shuckburgh's*, sold by *Macmillan*, *N. Y.*) An "chosen" passage also will be set for translation. *Composition*: *Translation of simple passages*. (For models, see *Sidgwick's Introduction to Greek Prose Composition*.)

B.—MATHEMATICS.

ALGEBRA: As set forth in *Colson's*, or *Tollhunter'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 $\sin \theta = \frac{1}{2}$.—*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* and the first 21 propositions of the *Eleventh Book*. *Conic Sections*:—*The Parabola* and the *Ellipsis*, 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.

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

In 1891-92, the following will be the subjects:—

Lounsbury: History of the English Language, Pt. 1.; *Spenser: Faerie Queene*, *Bl. II.*; *Shakespeare: Merchant of Venice*, *Henry V.*; *Scott: Marion, Scott*, (*Eng. Men of Letters Series*).

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 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.

§ XVII.—*Residence.*—All students are required to report their places of residence to the President on or before the day appointed in the *University Almanac*, (*October 17th.*)

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.

§ XVIII.—**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, (October 17th,) 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.

§ XIX.—**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 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.

§ XX.—**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.

A Bachelor of Arts of at least one year's standing shall be entitled to the Degree of Master of Arts, on passing an examination in a Course of Study to be approved by the Faculty, and of about the extent represented by the academic work of a single year. Candidates must give at least a month's notice of their intention to appear at such an Examination.

For fee see § xxiii.

§ XXI.—**Admission ad Eundem Gradum.**—Graduates of Universities approved by the Senate, who have received their degrees in course, shall be admitted *ad eundem gradum* in this University, on producing satisfactory proof of character and academic standing. For fee see § xxiii.

§ XXII.—**Academic Costume.**—(1.) Bachelors and Masters of Arts and Bachelors of Science or Letters 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.

§ XXIII.—**Fees.**—(1.) Fees are payable by students for Registration, for the use of the Gymnasiums, 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	82 00
Gymnasium Fee, payable annually by all male students attending more than one class, except registered students of the Halifax Medical College	1 50
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 notice required by § xl. (12)	2 60
Special Examination Fee, payable on giving the notice required by § xl. (12)	2 60
Fee for Special Certificate of Standing	5 60

† The English Classes of the First and Second Years, and the History and Physics Classes of the Third and Fourth Years, though attending 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 single classes.

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 the second years of their course, in the case of the Professor of Modern Languages fees shall be paid twice by undergraduates taking either one language during more than two years or two languages for two years, in the case of the Professors of Chemistry and Physics, fees of \$6.00 per session shall be paid for Practical Classes by undergraduates taking these classes, and in the case of the Professor of English Literature a fee of \$6.00 shall be paid by undergraduates taking the third and fourth years English Class.—No fees are required for the Tutorial classes in Classics and Mathematics.—An undergraduate taking a Special Course shall pay a fee of \$6.00 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 Spring Examinations of the Fourth Year, and will be returned in case of failure.....	\$ 5 00
Fee for M. A. Diploma, which must accompany the Thesis, and will be returned if the Thesis is not confined.....	10 00
Fee for B. A. or M. A., (not endless gradum).....	10 00

Faculty of Law.

THE PRESIDENT, (*ex officio*.)

Professors: WELDON,
RUSSELL,
Lecturers: TOWNSEND, J.,
SHANNON,
GRAHAM, J.,
PAYEANT,
HARRINGTON.

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

§ XXIV.—Courses of Lectures.

The following courses of lectures to be given in the Session of 1890-91, will begin on the 3rd September, 1890, and end on the 13th February, 1891.

CONSTITUTIONAL AND INTERNATIONAL LAW.

(George Moore Professorship.)

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

Constitutional Law.

Two lectures per week.

Subjects of lectures:

Law of Parliament. Select cases in Constitutional Law. British North America Act.

Text book: Carterwright's Cases.

Constitutional History.

Two lectures per week.

Subjects of lectures:

Anglo-Saxon Royalty. The Judicial System of the Anglo-Saxons. The Witanagemote. Feudalism in England. Origin and Growth of the two Houses of Parliament. Origin and development of Trial by Jury. Origin and Development of the Courts of Law. 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. The Written Code of the Constitution. *Magna Carta*. Petition of Right. Bill of Rights. *Habeas Corpus*.

Text book: Tassell-Langens'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 *Dominion*.

International Law.

One lecture per week.

Subjects of lectures:

Sources, Subjects, Objects and Sanctions of International Law. Sovereigns, Consuls, Ambassadors, Rights and Duties of Neutrals. Reprisals, Contraband, Blockade, Rights of Search, Privateering, Capture and Recapture, Construction of Treaties, Extradition.

Text book: Woodley's *International Law*.

CRIMES.

Lecturer:.....PROFESSOR WILKINS.

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: Borlidge's *Digest of Criminal Law*.

REAL PROPERTY.

Lecturer:.....HON. MR. BRANSON, 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; Devises; Descent of Real and Personal Property.

Text books: Williams' *Real Property*, and Todd's *Leading Cases*.

CONTRACTS.

Professor:.....B. BISHOP, 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. Disabilities arising from infancy, coverture, lunacy, intoxication, &c. Express and implied contracts. Verbal and written contracts. Specialties. Statutory requirements as to validity and 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 books: Finch's *Queens*, and Addison on *Contracts*.

EQUITY JURISPRUDENCE.

Lecturers:.....HON. MR. JUSTICE TOWNSEND AND PROFESSOR BISHOP.

One lecture per week, extending over two years.

Subjects of lectures:

Trusts, Mortgages, Fraud, Mistake, Specific Performance of Contracts, Administration of Assets, Election, Account, Discovery, Injunction.

Text book: Smith, H. A.

MARINE INSURANCE.

Lecturer:.....HON. MR. JUSTICE GALLAGHER.

One lecture per week.

Subjects of lectures:

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

Text book: Arnould.

TORTS.

Lecturer:.....MR. PATRICK, A. M.

One lecture per week.

Subjects of lectures:

Definitions. Torts considered with reference to Crimes and Contract. Defeat. 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: Digby.

EVIDENCE.

Lecturer.....MR. HARRISON, Q.C.

One lecture per week.

[1890-91.]

Subjects of lectures :

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

Text book: *Grounded on Evidence; Juridical Act and Rules.*

PARTNERSHIP AND COMPANIES

Lecturer.....MR. HARRISON, Q.C.

One lecture per week.

[1891-2.]

Subjects of lectures :

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

SALES OF PERSONAL PROPERTY.

Lecturer.....PROFESSOR BROWN.

One lecture per week.

[1890-91.]

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 *ius disponendi*. Stoppage in transitu. Conditions, warranty, express and implied. Remedies of seller and buyer.

Text book: *Benjamin on Sales.*

NEGOTIABLE INSTRUMENTS.

Lecturer.....PROFESSOR BROWN.

One lecture per week.

[1891-2.]

Subjects of lectures :

Formal Requisites. Consideration. Indorsement and Transfer. Real and personal defenses. Over-due paper. Notice of Dishonor. Protest. Bill or note.

Text book: *Chalmers on Bills.*

§ XXV.—**The Academic Year.**—The academic year consists of one Session. The Session of 1890-1 will begin on the 2nd of September, 1890, and end on the 23rd of April, 1891.

§ XXVI.—**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 62), 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 Matriculation Examinations or a recognized equivalent, and (b) matriculating, i. e., entering their names on the Matricula or Register as Undergraduates.

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

§ XXVII.—**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 the 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.

§ XXVIII.—**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—Æneid, 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 and 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 25th, 1890; and they shall be required to pay a fee of \$5.00 on the morning of the day of Examination.—The Examination will be held next Session on Tuesday, September 2nd, 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.

§ XXIX.—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. ✓ | 3. Negotiable Instruments. |
| 2. Partnership and Companies. ✓ | 4. Constitutional Law. ✓ |
| | 5. Conflict of Laws. ✓ |

Third Year.

- | | |
|-------------------------|----------------------------------|
| 1. International Law. ✓ | 3. Evidence. ✓ |
| 2. Insurance. ✓ | 4. Equity. ✓ |
| | 5. Sales of Personal Property. ✓ |

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.

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 comparatively 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.

§ XXX.—**Sessional Examinations.**—(1.) The Sessional Examinations will be held in February, 1890, on the completion of the lectures in the several subjects.

(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 one or two 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.) If an Undergraduate fail to pass on more than two subjects at any Sessional Examination, he shall lose his Session.

(5.) Undergraduates who wish to present themselves at a Supplementary Examination, must give notice to the Dean of the Faculty on or before August 25th, 1890.

(6.) The Supplementary Examination for the present year will begin September 2nd, at 10 o'clock, A. M. Fee, \$5.00, payable on the morning of Examination.

§ XXXI.—**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.

§ XXXII.—**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.

§ XXXIII.—**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.

§ XXXIV.—**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.

§ XXXV.—**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 requested to pay their Class Fees and sign the University Register on Tuesday, 2nd September, 1890, 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 L.L.B. diploma, 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 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).

PROF. LAWSON,

DR. SOMERS,

" SINCLAIR,

" CAMPBELL,

" LINDSAY,

" STEWART,

" PAGE,

" SLAYTER,

" PARKER,

" FARRELL,

" COWIE,

" BLACK,

" REID,

" MURROW,

MR. SHANNON,

" SIMMONS,

Dean of the Faculty: PROF. LAWSON,

Secretary " DR. LINDSAY,

§ XXXVI.—**Course of Instruction.**—I. Instruction is provided by the University in the following subjects of the Medical Curriculum:

I. CHEMISTRY.

Professor..... GEORGE LAWSON, Ph. D., LL. D.

Daily Lectures, 9 A. M.—10 A. M.

With experimental demonstrations.

Part I.—**INORGANIC.**—Object and nature of the Science. General Principles: Chemical Affinity; Laws of combination, by weight, by volume. The Elements. Equivalents; Atomic Numbers; Atomicity. Nomenclature; Notation; Formulae; Equations. The Non-Metallic Elements and their compounds considered in detail. The Atmospheric Water. Methods of Water Analysis. Mineral Waters. Combustion; Respiration. Anhydrides. Acids. Manufacture of Chlorine esters, poisons, Acids, Ammonia, etc.

The Metals: their physical and chemical characters; Classification, Acids; Salts; Bases; Radicals. The Metals and their compounds considered in detail. The Metals of the Alkalies, and the Alkali manufactures. Classification and separation of Bases. The Alkaline Earth Metals and their compounds. Magnesium Salts; Aluminium 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. Monatomic Alcohols and their derivatives; Methyl Alcohol; Chloroform. Ethyl Alcohol; Ether; Nitrous Ether; Nitric Ether. Series of Saturated Hydrocarbons. Alcohols, Aldehydes, Volatile Fatty Acids, Compound Ethers. Chloral. Chloroform. Polyatomic Compounds. Fats. Saponification. Polyatomic and Polybasic Acids. Sugar and Starches. Fermentation. Glucosides. The Aromatic Compounds. Benzol; Phenol; Aniline, &c. The natural Alkaloids of Opium; Nicotine; Quinine; Strychnine; Caffeine; Morphine, &c. Albumen. Urea. Uric Acid. Urinary Calculi and other deposits; methods of determining their chemical composition, and presence of Glucose, Albumen, &c., in urine. Analysis of Milk, Alcoholic Solutions, &c.

Text Book: Farrow's Manual of Chemistry (English or American Edition); or Green's Edition of Wurtz's Elements.

Practical Chemistry.

Systematic Courses of Testing for Metallic Bases, and Inorganic and some of the more common Organic Acids, with special exercises. Where students can give the necessary time, this course will be followed by processes of detection of Metallic Poisons; examination of Urine for Glucose, Albumen, nature of Calculi and other deposits. Sanitary Analysis.—Atmospheric Air; Water; Mineral Waters.

Text Books: Macaulay's Practical Chemistry. Bowman's Medical Chemistry. Special Tables are used in the Laboratory, and reference books may be consulted by students in the Balance Room.

II. BOTANY.

Professor.....GEORGE LEWIS, Ph. D., LL. D.

Lectures Tuesdays, Thursdays and Fridays, 10—11 A. M.

The Vegetable Cell: its structure and contents. Typical and Transformed Cells; Tissues, Parenchyma, Prosenchyma. Minute Structure and Development of the Root, Stem and Leaf. Structure and Development of the Flower, Fruit and Seed. *Vegetable Protozoans:* 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; Translocation or Metastasis. Respiration. Vegetable Growth. Movements, of Chlorenchyma, of organs (Circumnutation), Nyctitropism. 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 Books: Goodale's *Physiological Botany* (being Vol. II of Gray's *Botanical Text Book*); Gray's *Flow Plants* (now, with Lawson's *Fern Flora*).

Field Books 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 at the Halifax Medical College or at any other recognized 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.

§ XXXVII.—The Academic Year.—The Academic Year consists of one session. The session of 1890-91 will begin on Wednesday, October 29th, 1890, and end on Thursday, April 23rd, 1891.

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 and two of 50 each.

§ XXXVIII.—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.

§ XXXIX.—Matriculation Examination.—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 the Matriculation Examination of this Faculty or some other examination recognized by the Senate as sufficient.

2. The following are the subjects of the 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) Questions 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 re-translation 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 Biot'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 Zevon's *Elementary Lessons in Logic* (Macmillan & Co.)

3. This Examination will begin on Wednesday, the 29th of October, 1890, in the College Hall, and 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 (specifying in such notice 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.

4. This 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; and also 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 §§ I. and XIV.

5. A certificate of the possession of a University Degree in Arts, or of the Teacher's Grade A License of Nova Scotia, or

* Latin for 1890, Cicero, *Oratio Vana*, Bks. II and III, or Virgil, *Æneid*, Bk. II. Latin for 1891, Cicero, *Oratio Vana*, Bks. IV and V, or Virgil, *Æneid*, Bk. II. Greek for 1890, Xenophon, *Anabasis*, Bk. IV, or V, or VI. Greek for 1891, Xenophon, *Anabasis*, Bk. V, or VI, or VII.

In French, Voltaire's *Charles XII*, Books I and II, or Scott's *Robinson Crusoe*. In German, Adler's *Reader* (Appendix A, C, & D), Reuter's *Alphabet*, 14 and 14-17 (Introduction), or Schiller's *Der Stoff als Objekt*, Act I.

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

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.

6. The Matriculation and Sessional Examinations 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 facto*.

7. 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.

§ XLI.—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.

§ XLI.—Primary M. D., C. M. Examination.—

1. Candidates for this examination shall be required to produce certificates to the following effect:—

(1.) Of having passed the Matriculation Examination, 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 either in this University, in the Halifax Medical College, or in some other 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), Physiology (including Histology), 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. 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 Undergraduates of the University before the date of the examination, and to pay before the date of the examination two-fifths 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 Primary Examination without fee.

§ XLIII.—Final M. D., C. M. Examination.—1. 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, and shall be after the following form :—

HALIFAX, ——— 18—

I, the undersigned, being desirous of obtaining the Degree of Doctor of Medicine and Master of Surgery, do hereby declare that I have attained the age of twenty-one years, or (if the case be otherwise), that I shall have attained the age of twenty-one years before the next graduation day, and that I am not (or shall not be at that time) under articles as a pupil or apprentice to any Physician, Surgeon or Apothecary. (Signed), A. B.

(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.

(3.) Of either (a) having attended during four academic years at least two course of lectures per year in subjects of the Primary and Final M. D., C. M. Examinations either in this University or at the Halifax Medical College, or at some other recognized 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 attended during three academic years courses of lectures as above.

(4.) Of having, after passing the Matriculation Examination, attended at the Halifax Medical College, or at some other 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, including Hygiene and Insanity.

(5.) 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.

(6.) 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 recognized practitioner.

(7.) Of having obtained proficiency in the practice of Vaccination under a recognized 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 (including Hygiene and Insanity). The oral examination 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 (including Hygiene and Insanity) 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 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 three-fifths 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.

§ XLIII.—Academic Costume, etc.—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 degree conferred upon them. Degrees shall not be conferred in the absence of the candidate, except by special permission of the Senate.

3. Before receiving his degree, the candidate will be required to sign the following oath or affirmation:—

SPONSIO ACADEMICA.

In Facultate Medicinæ Universitatis Dalhousianæ.

Ego, Doctoratus in Arte Medicæ, titulus jam donandus, assensu cesam Deo cordium scrutator, spondeo:—me in omni grati animi officio erga Universitatem Dalhousianam ad extremam vitam habitum, perseverantem; tam porro artem medicam castè, castè, et probe exercitaturum; et quoad poterò, omnia ad incrementum corporum saltem conducenda, cum fide procuraturum; que denique, inter medicinam, vias vel modis aliis curandis, non alio gravi casu vulgaturum. Ita sponsus nihil spondendi adit Nomen.

§ XLIV.—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	25 00

Institutions.

THE UNIVERSITY LIBRARY.

The General † Library consists of about 3500 volumes, selected to meet the wants especially of students of the Faculty of Arts.

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; and the ROBERT MORROW COLLECTION of works on Northern Antiquities and Languages, presented by Mrs. Robert Morrow.

During the past year, 232 volumes have been added to the Library. Volumes have been presented by the following: Robert Sedgewick, Esq., B. A., Deputy Minister of Justice, 1; Rev. John de Soyres, M. A., St. John, N. B., 1; Prof. F. C. Smythurst, Harvard University, 1; Howard Murray, Esq., B. A., Halifax Academy, 7; J. G. Bourinot, Esq., C. M. G., LL. D., D. C. L., 1; Prof. D. A. Murray, University of the City of New York, 1; W. F. Ganong, Esq., Cambridge, Mass., 1; Prof. MacGregor, 3; Prof. MacMechan, 3; Prof. Alexander, 1; Prof. Lawson, 1; W. H. Magee, Esq., 1; M. le Voe Francis de Saligue Fédon, 1; Prof. Seth, 3; the Editors of the *Dalhousie Gazette*, 1; the Department of the Interior, U. S. A., 25; the Bureau of Education, U. S. A., 1; the Smithsonian Institution, 10; Geological and Natural History Survey of Canada, 3; the Meteorological Service of the Dominion of Canada, 1; the College of Physicians and Surgeons, Toronto, 1; the Education Department, N. B., 1; the N. S. Institute of Natural Science, 1; the N. S. Legislative Library, 2; Messrs. Macmillan & Co., 32; Messrs. Rivingtons, 2; Messrs. J. & A. McMillan, St. John, N. B., 1.

Also Calendars, &c., by the following: Universities of London, Durham, Edinburgh, Glasgow, Aberdeen, Toronto, Laval, Ottawa, Queen's College, McGill, Acadia, Mt. Allison, Harvard, College of New Jersey, Vassar, Lohigh, Lake Forest, Western Reserve, California, St. Francis Xavier, University of Buenos Aires, Polytechnic Institute, Stevens' Institute of Technology, Wesleyan Theological College, Montreal; Hahnemann Medical College, L'Académie Commercial, Montreal.

† The Provincial Legislative Library and the Citizens' Free Library being open to the public on the fulfilment of certain conditions, may also be used by students.

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. It 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, rock specimens and Indian implements, made in part by Rev. Thomas McCulloch, D. D., the first President of the College, and collections of dried specimens of native plants.

THE PATTERSON ARCHEOLOGICAL COLLECTION.—This collection of Indian Antiquities was made by Rev. George Patterson, D. D., while engaged during a number of years in researches regarding the history and modes of life of the aborigines of Nova Scotia. The collection was presented by him to the College in 1889, on the condition that the Governor should make suitable "provision for the preservation and exhibition of the same, in such a manner as is usual in well-managed museums." It is kept as a separate collection. It contains 288 specimens, separately catalogued, and is arranged conveniently for reference. About 250 of the specimens have been obtained in Nova Scotia; they represent the stone age of its aboriginal inhabitants, and form an almost complete representation of the articles usually found among the remains of the native races of North America. There are also a number of similar articles from the United States, Scotland, the West Indies, and especially the New Hebrides. The classified catalogue of the collection, which is arranged according to the method adopted in the description of the Archaeological Collections of the Smithsonian Institution, contains full particulars of the localities where the several specimens were obtained.

Donations of DRIED PLANTS from the Pacific Islands and Australia have been made by Rev. Hugh Robertson and Rev. Joseph Annand, M. A., New Hebrides; and of Nova Scotian Plants by Mr. George G. Campbell, B. Sc., Truro.

A Collection of CARBONIFEROUS FOSSILS, from the coal measures at Spring Hill, has been presented by Mr. Swift, of the Spring Hill Mines, Cumberland County.

*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.

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 Gymnast.

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.
- (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.

University Lists.

DEGREES

Conferred April 24th, 1900.

BACHELOR OF ARTS.

CAMPBELL, DONALD FRANK	East River, St. Mary's, N. S.
CHAPMAN, ADOLPHUS EUGENE	Salisbury, N. B.
COOPER, GEORGE ALFRED	Port Williams, N. S.
FISHER, JAMES MITCHELL	Lower Stewiacke, N. S.
FULTON, KEEN	Middle Stewiacke, N. S.
GREENSON, ROBERT	Halifax, N. S.
LAIRD, ALEXANDER	Sanbury, Ont.
LEWIS, ERNEST WILLIAM	Moncton, N. B.
MCKAY, DUNCAN OLIVER	Headbitt, Pictou Co., N. S.
MACKINNON, JOHN ARCHIBALD	Cove Bay, C. B.
MACKINTOSH, DAVID CHARLES	Springville, N. S.
MACLEOD, FREDERICK JOSEPH	Charlottetown Royalty, P. E. I.
MILLAR, GERIE	Yainingsonche, N. S.
BATTIE, EDWARD JOSEPH	Clacton-on-Sea, Essex, Eng.
ROWLENS, GEORGE ANDERSON	Row. Minasodolbit Harbor, N. S.
SCHERMAN, GEORGE WELLINGTON	Freeston, P. E. I.
SMITH, EDMUND BOTHELL	Truro, N. S.

BACHELOR OF LAWS.

ARMSTRONG, HENRY HENRI	Halifax.
BOWEN, WILLIAM JOHN	Kingston, Kent Co., N. B.
CAHAN, CHARLES HALPIT, B. A.	Halifax.
FAIRWEATHER, FRED. LAURENCE	Sussex, N. B.
FRANK, JOSEPH FELIX	Mailfield.
HAMILTON, CHARLES FRANCIS, B. A.	North Sydney, C. B.
HOWAY, FREDERICK WILLIAM	New Westminster, B. C.
HUGHES, WILLIAM HUGH	St. John, N. B.
MCCREID, RICHARD	New Westminster, B. C.
MCDONALD, WILLIAM, B. A.	Pisseg.
MCPHEE, DANIEL LOCHLAN	Little Ross d'Or.
MELLIOR, HUMPHREY, B. A.	Charlottetown, P. E. I.
NOTTING, THOMAS	Truro.
OXLEY, CHARLES HOWARD, B. A.	Oxford, N. S.
ROBERTS, JOHN ARTHUR	Bridgewater.
ROBERTSON, THOMAS EDWIN, B. A.	Antigonish.
STEVENS, DANIEL JOHNA.	Halifax.
SINCLAIR, JOHN ARCHIBALD	St. John, N. B.

DOCTOR OF MEDICINE AND MASTER OF SURGERY.

KENT, BRISLEY VICARS..... Truro, N. S.

MASTER OF ARTS.

SMITH, JAMES FESTUS, B. A..... River Robert, N. S.
 BENNETT, ROBERT JAMES, B. A..... Athlery, Ireland.

CERTIFICATE OF SHORT COURSE IN JOURNALISM.

HIGGS, BENJAMIN DANIEL..... Charlottetown, P. E. I.

GENERAL PASS LIST.

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

FACULTY OF ARTS.

For B. A. Degree.

FOURTH YEAR: CAMPBELL, D. F.; CHAPMAN, A. E.; CURRIE, G. A.; FAHEY, J. M.; FALLEN, ELEN; GRIGOR, RALE; LAIRD, ALEX.; LEWIS, E. W.; MACKINTOSH, J. A.; MACKINTOSH, D. C.; MACHOD, F. J.; MCKAY, D. O.; MILLER, GEORGE; BATTIE, E. J.; ROWLENS, G. A.; SCHERMAN, G. W.; SMITH, E. B.

THIRD YEAR: BAKER, ALICE S.; BEHRETT, J. W.; COX, G. H.; GOODWIN, EMILY M.; HUGH, D. D.; JORDAN, E. J.; MCCURDY, J. F.; MACGLOTHLIN, J. A.; MACKAY, J. B.; McMILLAN, C. E.; McMILLAN, F. A.; McNAUGHTON, ELIZABETH; MAGUE, W. H.; MOORE, C. L.; MORSE, A. V.; OLIVER, A. C. L.; ROBINSON, C. B.; STAIRS, H. B.; TAPPER, J. W.; WEST, T. F.

SECOND YEAR: ARCHIBALD, SARAH E.; BAKIN, F. W. M.; DUGLAS, E. A.; GOSLOW, R. H.; HARRINGTON, FANNY B.; HILL, A. R.; JOHNSON, G. F.; JOHNSON, J. B.; MACDONALD, A. F.; MACKAY, M. S.; MACKENZIE, A.; McDONALD, A. J.; McLEOD, D. S.; McINTOSH, J. A.; McNEIL, ROL.; SUTHERLAND, J. A.; WELSH, K. G. T.; WESTON, CLARA P.; WESTON, R. A.

FIRST YEAR: ANDREW, E. E.; BIRCHHEAD, A. S.; DODGE, B.; FLETCHER, D.; FORBES, E. W.; GRANT, E. J.; JONESON, HAROLD J.; KELLER, MARY B.; LEGG, J. W.; McARTHUR, S. E.; MCKAY, T. C.; McLEOD, C. A.; MERRAY, LOYCE C.; HARKIN, J.; ROSS, G. E.

For B. L. Degree.

THIRD YEAR: MONTGOMERY, J.; MAIR, EDEL.

FIRST YEAR: FISHER, J. G.

For B. Sc. Degree.

FIRST YEAR: ARDUR, G.

FACULTY OF LAW.

For LL.B. Degree.

THIRD YEAR: Allison, Edward P.; Armstrong, B. H.; Bowser, Wm. J.; Cahon, Charles H.; Fairweather, Frederick L.; Fraser, Joseph F.; Hamilton, Charles F.; Howar, Frederick W.; Huggins, Wm. H.; Macdonald, Wm.; McBride, Richard; McPhee, Daniel L.; Melick, H.; Noyling, Thos.; Osley, Chas. H.; Roberts, John A.; Robertson, Thos. H.; Sinclair, J. A.; Success, Daniel J.

SECOND YEAR: Davidson, Jas. MacG.; Howat, Cornelius A.; Logan, H. J.; McDonald, Allan J.; McDonald, Joseph; McNeil, Alex.; Paton, V. J.; Ruggies, N. C.; Shaw, Alfred Knox; Wickwire, H. H.

FIRST YEAR: Adams, J. P.; Blackadar, H. S.; Bill, E. M.; Casey, C. E.; Corbett, J. E.; Dockrill, G. O'G. M.; Fulton, W. H.; Johnstone, I. M.; Kelly, J. K.; Murray, R. G.; Sangster, H. W.; Smith, H. S.; Treznan, W. H.

FACULTY OF MEDICINE.

Primary M. D., C. M. Examination.

Grant, William; Johnson, Isaac Wellwood; Kent, Hedley Vicars;* Walsh, Thomas William.

Final M. D., C. M. Examination.

Kent, Hedley Vicars.

SPECIAL PASS LIST.

FACULTY OF MEDICINE.

In accordance with the ordinary regulations or by special permission of the Faculty, the following were allowed examinations in the subjects set after their names and have passed in the same:—

Chisholm, Alex. J., Botany.
 Cooley, Patrick, "
 Deelman, Andrew A., "
 Dennison, Howard S., "
 Drysdale, George N., Botany and Practical Chemistry.
 Fairbanks, Harry G., Botany.
 Hamilton, Charles A., Physiology, including Histology, Anatomy including Practical Anatomy, Mat. Med. including Pharmacy, Chemistry.
 Irwin, Archer, Botany.
 Kent, Hedley Vicars, Anatomy, including Practical Anatomy.
 McAulay, Murdoch W., Botany.
 McCharles, Robt. W., Anatomy, including Practical Anatomy, Chemistry, including Practical Chemistry, Mat. Medica, including Pharmacy.
 McDonald John C., Botany.
 Meyer, Edward J., "
 Morrison, D. A., "
 Pascoe, John M., Anatomy, including Practical Anatomy and Histology.
 Rice, Frank E., Botany.
 Turnbull, George D., Botany.
 Walsh, Thomas W., Practical Chemistry.
 Woodworth, Percy C., Physiology, including Histology, Chemistry, including Practical Chemistry, Mat. Medica, including Pharmacy.

* Part passed at McGill University.

HONOURS, MEDALS, Etc., 1889-90.

HONOURS.

GREEK AND ENGLISH.—*First Rank*.—F. J. MacLeod.
 MATHEMATICS AND FRENCH.—*Second Rank*.—G. A. R. Bowdler.
 EXPERIMENTAL PHYSICS AND CHEMISTRY.—*Second Rank*.—D. O. McKay.

GENERAL DISTINCTION.

First Rank.—G. W. Schwarz.
Second Rank.—E. W. Lewis.

MEDAL.

THE GOVERNOR-GENERAL'S GOLD MEDAL.—F. J. MacLeod.

SPECIAL PRIZES.

THE NORTH BRITISH SOCIETY'S SCHOLAR.—K. G. T. Webster.
 THE WATVELLY PRIZE.—F. W. M. Babin.
 THE EARLY ENGLISH TEXT SOCIETY'S PRIZE.—F. J. MacLeod.
 THE NEW SHAKESPEARE SOCIETY'S PRIZE.—Miss N. E. Archibald.

SENIOR MUNRO EXHIBITIONS.

(1) MacLeod, J. H.	(2) Tupper, J. W.
(3) Hiebert, J. W.	(4) Robinson, C. E.
	(A) Hugh, D. D.

SENIOR MUNRO SUBSIDIARIES.

(1) West, J. F.	(5) Baxter, Agnes S.
(2) Moore, C. L.	(6) McMillan, F. A.
(3) Macrae, A. O.	(7) Mays, W. H.
(4) Jordan, E. J.	(8) McMillan, C. E.

JUNIOR MUNRO EXHIBITIONS.

(1) Logan, J. W.	(2) McKay, T. C.
	(3) Forbes, E. W.

JUNIOR MUNRO SUBSIDIARIES.

(1) Dodge, B.	(5) Hornstead, A. S.
(2) Grant, R. J.	(6) Rankin, J.
(3) Jamieson, Harriet.	(7) Mackintosh, J. A.
(4) Robinson, D. M.	(8) Arthur, G.
	(9) Murray, Lucy C.

EXAMINATIONS, 1889-90.

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 Baccalaureatus. The names are in alphabetical order.)

FIRST YEAR.—*Admssed*, E.; *Arthur*, G.; *Barnstead*, A. S.; *Dodge*, R.; *Finnlayson*, D.; *Furber*, K. W.; *Fruer*, J. G.; *Graat*, R.; *J. Jamieson*, *Harriet*; *Keating*, C. S.; *Kellogg*, Mary H.; *Logan*, J. W.; *McArthur*, J.; *McKay*, D. McG.; *Melkas*, T. C.; *Macintosh*, J. A.; *McNutt*, Elvin; *Martin*, A.; *Murray*, Lucy C.; *Purssan*, H.; *Rankin*, J.; *Robinson*, D. M.; *Ross*, H.

SECOND YEAR.—*Caldwell*, Lillias B. (conditionally); *Morrison*, W. C.; *Thompson*, W. S. (conditionally); *Weston*, Clara F.

SUPPLEMENTARY EXAMINATIONS.

THIRD YEAR.—*Junior Physics*—*Chapman*, A. E.

SECOND YEAR.—*Geol.*—*McCarthy*, J. F. *Latin*—*Graat*, H. G.; *Morash*, A. V. *Mathematics*—*McCarthy*, J. F. *English*—*Montgomery*, J.; *Morash*, A. V.

FIRST YEAR.—*Latin*—*Mahon*, J. A. *Mathematics*—*Pelton*, C. S.

SPECIAL EXAMINATIONS.

Metaphysics—*Higgs*, B. D. *Advanced English*—*Higgs*, B. D.

SESSIONAL EXAMINATIONS.

CLASS LISTS.

(Containing the names, arranged in order of rank, of all students who have passed in the subjects of the various classes.)

GREEK.

FOURTH YEAR.—*Class I*—*McLeod*, F. J. *Class II*—*Scow*. *Passed*—*Grierson*, Robt.; *Matice*, E. J.; *MacLennan*, D. C.; *Campbell*, D. F.

THIRD YEAR.—*Class I*—*Brehaut*, J. W.; *Cox*—*MacMillan*, F. A.; *Robinson*, C. B. *Passed*—*McLennan*, J. E.; *Cox*, G. H.; *Oliver*, A. C. L.; *Murray*, C. L.; *West*, T. E.; *Tupper*, J. W.; *Goodwin*, Emily; *McNaughton*, Eliz.; *Hennard*, J. S.; *McMillan*, C. M.

SECOND YEAR.—*Class I*—*McNeill*, Robt.; *Macdonald*, A. F. *Class II*—*Bain*, F. M.; *Johnson*, G. F.; *Webster*, K. G. F. *Passed*—*Johnson*, J. B.; *Graham*, R. H.; *Mcintosh*, J. A.; *(Archibald*, S. E.; *Logan*, J. B.); *Hill*, A. R.; *McKay*, M. S.; *Sutherland*, J. A.; *Macdonald*, A. J.; *Douglas*, E. A.; *Campbell*, H. S.; *McLennan*, D. S.; *McKenzie*, A.

FIRST YEAR.—*Class I*—*Logan*, J. W.; *McKay*, T. C.; *Ross*, *Holley*. *Class II*—*Martin*, Albert; *Robinson*, D. M.; *Furber*, K. W. *Passed*—*Barnstead*, A. S.; *Murray*, Lucy C.; *Dodge*, Blanchard; *McKay*, D. G.; *Ross*, Geo. E.; *McLeod*, C. A.; *Graat*, Robt. J.; *Rankin*, Jas.; *Admssed*, E.; *O'Brien*, H. F.; *McArthur*, S. J.; *Tobin*, W. R.; *Jamieson*, Harriet.

LATIN.

FOURTH YEAR.—*Class I*—*Schmid*, G. W. *Class II*—*Lewis*, E. W.; *Smith*, E. R. *Passed*—*Fallon*, Eben; *Cogwell*, G. A.; *Chapman*, A. E.; *MacKinnon*, J. A.

THIRD YEAR.—*Class I*—*Brehaut*, J. W.; *Robinson*, C. B. *Class II*—*Statis*, H. E.; *Jordan*, E. J.; *MacMillan*, F. A.) *Passed*—*Thompson*, J. W.

SECOND YEAR.—*Class I*—*McNeill*, Robt.; *Webster*, K. G. T. *Class II*—*Macdonald*, A. F.; *Campbell*, R. S.; *Bakin*, F. M.; *Johnson*, G. F. *Passed*—*Weston*, R. A.; *Hill*, A. R.; *McKay*, M. S.; *Mcintosh*, D. S.; *Graham*, R. H.; *Archibald*, Sarah E.; *Weston*, Clara F.; *Sutherland*, J. A.; *Fallenon*, Arch.; *Macintosh*, J. A.; *Logan*, J. D.; *McKenzie*, G. W.; *Johnson*, J. B.; *Macdonald*, A. J.; *Douglas*, E. A.; *Pelton*, C. S.; *Delevy*, Phil.; *Caldwell*, Lillias; *Thompson*, W. S.; *Miller*, George; *McKenzie*, A.; *Morrison*, W. C.

FIRST YEAR.—*Class I*—*Logan*, J. W.; *(Furber*, E. W.; *McKay*, T. C.); *Martin*, Albert; *Ross*, *Holley*. *Class II*—*Robinson*, D. M.; *Murray*, Lucy C.; *Dickie*, Bessie. *Passed*—*McDonald*, Ma G.; *McLennan*, C. A.; *Finlayson*, Darius; *McArthur*, S. J.; *Graat*, Robt. J.; *Rankin*, Jas.; *Admssed*, E.; *Barnstead*, A. S.; *Ross*, Geo. E.; *McKay*, D. G.; *Kellogg*, Mary H.; *O'Brien*, K. F.; *Jamieson*, Harriet; *Kirk*, Jas. H.; *McNutt*, Elvin.

FRENCH.

THIRD CLASS.—*Class II*—*Pelton*, Charles S.; *Montgomery*, J.

SECOND CLASS.—*Class I*—*Brehaut*, J. W.; *Kellogg*, Miss May; *Class II*—*Arthur*, George; *Weston*, R. A.; *Hobrecker*, Miss Clara; *Cogwell*, G. A. *Passed*—*Rowlings*, G. A. B.; *Wainse*, Miss C. P.; *Fruer*, J. G.; *Chapman*, A. E.; *Macintosh*, D. C.

FIRST CLASS.—*Class I*—*Hugh*, D. D.; *McNaughton*, Miss E.; *Goodwin*, Miss E. M.; *Leicht*, Miss Bertha. *Class II*—*Finlayson*, Darius; *McCarthy*, Jas. F. *Passed*—*Grierson*, J. A.; *Kooler*, R. J.; *Myers*, J. S.; *Keating*, C. S.

GERMAN.

THIRD CLASS.—*Class II*—*Mair*, Miss Ethel.

SECOND CLASS.—*Class I*—*Hobrecker*, Miss Clara; *Leicht*, Miss Bertha; *Logan*, J. H.; *Roscoe*, E. J.; *Grierson*, Robt. *Class II*—*MacLeod*, Ford. J.; *Smith*, E. B. *Passed*—*Dickie*, Miss Bessie; *Leat*, G. A.; *McKoon*, George W.

FIRST CLASS.—*Class I*—*PAUMET*, Miss Agnes; *Tupper*, J. W.; *Arthur*, George. *Class II*—*Maclean*, J. B.; *Fruer*, J. G. *Passed*—*McNutt*, Miss Elvin; *Furber*, H.; *Montgomery*, J.

ENGLISH.

SECOND YEAR.—*Class I*—*Archibald*, S. E. *Class II*—*Harrington*, S. B.; *Johnson*, G. F.; *Webster*, K. G. F.; *Mcintosh*, D. S.; *Hobrecker*, C. C.; *Weston*, R. A. *Passed*—*McNeill*, R.; *Morrison*, W. C.; *Mcintosh*, J. A.; *McDonald*, A. J.; *Hosie*, L. S.; *Graham*, R. H.; *Weston*, C. P.; *McDonald*, A. F.; *Campbell*, H. S.; *Bakin*, F.; *Hill*, A. H.; *McKay*, M. S.; *Sutherland*, J. A.; *McKoon*, G. W.; *Mahon*, J.; *Johnson*, J. B.; *McKenzie*, A.; *Douglas*, E.; *Pelton*, C. S.

FIRST YEAR.—*Class I*—*Logan*, J. W. *Class II*—*Ross*, H.; *McKay*, T. C.; *Arthur*, G. *Passed*—*Furber*, E. W.; *Rankin*, J.; *Ross*, G. E.; *McKay*, D. G.; *Hobrecker*, C. C.; *Dickie*, B.; *Jamieson*, H.; *Barnstead*, A. S.; *Finlayson*, D.; *McArthur*, S. J.; *Murray*, L. C.; *Mitchell*, G. F.; *Graat*, R. J.; *Dodge*, G. B.; *McDonald*, I.; *McLennan*, C. A.; *Martin*, A.; *Kirk*, J. H.; *Leicht*, B.; *Parter*, L. W.; *Arnard*, E. E.; *Kellogg*, M.; *McNutt*, E.; *Doherty*, F.

HISTORY.

FOURTH YEAR: *Class I*—Schurman, G. W.; Lewis, E. W.; Laird, Alex.; Campbell, D. F. *Class II*—Chapman, E.; Raitoe, E. J.; McKay, D. O.; Miller, Geo.; Fulton, Eben; Fisher, J. M. *Passed*—Grierson.

THIRD YEAR: *Class I*—Magee, W. H.; Macrae, A. O. *Class II*—Harrington, E. B.; Steins, H. B.; MacMillan, F. A.; Tupper, J. W.; Robinson, C. B.; Oliver, A. C. L.; MacLean, J. B. *Passed*—Montgomery, Jas.; West, T. F.; Moore, C. L.; McNaughton, E.; Muir, Ethel; Grierson, J. A.; McMillan, C. E.; Harrington, J. G.; Goodwin, E. M.; McGlashan, J. A.; Keasely, J. S.; Moench, A. V.; Menro, C.; Cox, G. F.; Thompson, F. W.; McCurdy, J. F.

ADVANCED POLITICAL ECONOMY.

Class I—Schurman, G. W.; McKinnon, J. A.; Lewis, E. W.; Chapman, E.

POLITICAL ECONOMY.

Class I—Hugh, D. D.; Jordan, E. *Class II*—Menro, C.; Raitoe, E. J.; Muir, Ethel; Fulton, Eben; Mackintosh, D. C.; McNaughton, E.; Montgomery, Jas.; MacGlashan, Jas. *Passed*—Grierson, J. A.; Smith, E. B.; Thompson, F. W.; Norman, A. J.; Goodwin, E. M.; Harrington, J. G.

METAPHYSICS.

Class I—Hugh, D. D.; Macrae, A. O.; Mackintosh, D. C.; Jordan, E. J.; Robinson, C. B. *Class II*—McMillan, Lewis, E. N.; Moore, C. L.; Fulton, Eben; Menro, C. *Passed*—Muir, Ethel; Smith, E. B.; MacLean, F. J.; Fraser, S. A.; MacGlashan, J. A.; (McCurdy, J. F.; Maclean, J. B.) Campbell, D. M.; Menash, A. V.

ETHICS.

Class I—(Hugh, D. D.; Raitoe, E. J.); Jordan, E. J. *Class II*—Lewis, E. N.; Cogswell, G. A.; McKinnon, J. A.; Mackintosh, D. C.; Miller, Geo.; Fisher, J. M.; Smith, E. B. *Passed*—(Fulton, Eben; Grierson, Robert); Laird Alex.; Chapman, A. E.

LOGIC AND PSYCHOLOGY.

Class I—Welder, K. G. T.; (Bain, F. M.; Johnson, G. F.); (Harrington, Miss E. B.; Johnson, J. B.); Weston, R. A. *Class II*—Weston, Miss Clara P.; Archibald, Miss S. E.; Logan, J. D.; McNeill, Rod.; Hill, A. R.; Lear, J. A.; Douglas, E. A. *Passed*—(Macdonald, A. F.; Morrison, W. C.); Fulton, C. S.; Macintosh, John A.; Sutherland, J. A.); (Graban, R. H.; Mahon, J. A.); Campbell, D. M.; Melness, D. S.; Macdonald, A. J.; Campbell, R. S.; McKera, Geo. W.; Fullerton, A.; Caldwell, Miss L. B. *Passed in Psychology*—Thompson, W. S.

MATHEMATICS.

SECOND YEAR: *Class I*—Bain, F.; Archibald, Miss S. J.; Welder, K.; Weston, R. A.; Weston, Miss C. P. *Class II*—Johnson, J. B.; Hill, A. B. *Passed*—Macdonald, A. F.; Macintosh, D.; Johnson, G. F.; McNeill, Rod.; Morrison, W. C.; Harrington, Miss E.; Macdonald, A. J.; (Douglas, E.; Graban, R.); Mackay, M. S.; Sutherland, J.; Mahon, J. A.; Macintosh, J. A. *Passed in Geometry*—Caldwell, Miss L.; Logan, John D. *Passed in Trigonometry and Algebra*—Campbell, R.; Mackintosh, A.

FIRST YEAR: *Class I*—Grass, R. J.; (MacLean, C. A.; McKay, T. C.); McDonald, Miss Ida; Ross, George; Kellogg, Miss May; Logan,

J. W.; (O'Brien, R. F.; Rankin, J.). *Class II*—McKay, D. G.; (Mitchell, G. F.; Jamieson, Miss Harriet). *Passed*—Ross, Hedley; (Finlayson, D.; Putnam, H.; Murray, Miss L. C.); (McArthur, Arthur, George); Martin, A.; Barnstead, A. S.; Anand, Ida; Robinson, D. M.; Kirk, J. B.; Keefe, R.; Fraser, J. G.; Fraser, J. M.; Forbes, Ed. *Passed in Geometry*—Cameron, D. A.; Keating, C. S.; Murray, R. H.

JUNIOR PHYSICS.

Class I—Baxter, Agnes S. *Class II*—West, T. F.; Magee, W. H.; Robinson, C. B.; Steins, H. B.; Moore, C. L.; (Cox, G. H.; Maclean, J. B.); McMillan, F. A.; McMillan, C. E.; Grierson, J. A.; Oliver, A. C. L.; Goodwin, Emily M.; Muir, Ethel; Kennedy, J. S.; MacGlashan, J. A.; Montgomery, J. *Passed*—Campbell, D. M.; Thompson, F. W.; (Howatt, C.; McNaughton, E.); McCurdy, J. F.; Menro, C.; Macrae, A. O.; Thomson, J. W.; Morash, A. V.

SENIOR PHYSICS.

Class II—Bowling, G. A. R. *Passed*—McKay, D. O.

DYNAMICS.

Passed—Magee, W. H.; Baxter, Agnes S.

INORGANIC CHEMISTRY.

Class I—West, T. F.; McLean, C. A.; Forbes, E. W.; Arthur, Geo.; McKay, T. C. *Class II*—Grant, Robt. J.; Steins, H. B.; Rankin, Jas.; K-Dogg, May; Parker, Lewis W.; Robinson, D. M.; Barnstead, A. S.; Martin, Albert; Ross, George E. *Passed*—Cameron, D. A.; McKay, D. G.; McDonald, Ida G.; Dodge, G. B.; Ross, Hedley; Mitchell, G. F.; Logan, J. W.; Finlayson, Danoo; McNash, Elvie; Myers, Jas. S.; Tobin, W. R.; McArthur, S. J.; Bastie, J. H.; Keating, C. S.; Fraser, J. G.; Fraser, James M.; O'Brien, E. L.; Putnam, Harry; Anand, Edward; Kirk, Joseph H.; Harrington, J. G.; Keefe, R. T.; Murray, L. C.; Jamieson, Harriet J.

PRACTICAL CHEMISTRY—ADVANCED.

Class II—Campbell, D. F.

PRACTICAL CHEMISTRY.

Class I—Magee, W. H.; Cox, George H.; McMillan, Charles E.; West, T. F. *Class II*—Oliver, A. C. L.; Barkin, Robert; Menro, A. O.; *Passed*—Sutherland, J. A.

ORGANIC CHEMISTRY.

Class I—Magee, W. H. *Class II*—Campbell, D. F.; Thomson, J. W.

BOTANY.

Class I—Macrae, A. O. *Class II*—Cox, George H.; McMillan, C. E.; Oliver, A. C. L.; Moore, C. L.; West, T. F.; Grierson, Robert; McKay, D. O. *Passed*—Arthur George; Thomson, J. W.; Cogswell, G. A.; Fraser, James M.; Keating, Sedley C.

FACULTY OF LAW.

SESSIONAL EXAMINATIONS.

CLASS LISTS.

(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.)

CONSTITUTIONAL HISTORY.

Class I—Adams: Fulton, W.; Dockrill; Smith; Trueman; Johnstone; Casey. *Class II*—Fraser, J. G.; Fraser, James; Sangster; Murray; Calder, *Passed*—Bill; Blackadar; Corbett; Grierson; Montgomery; Smith.

CONSTITUTIONAL LAW.

Class I—Scharman; McNeill; Cogswell; Shaw; McKinnon; McDonald; Joseph. *Class II*—Wickwire; Kelly; Logan; Notting. *Passed*—Congdon; Howatt; McDonald, A. J.; Ruggles.

INTERNATIONAL LAW.

Class I—Howay; Mellich; McBride; Allison; Armstrong; Frame. *Class II*—Roberts; Oxley; Bower; Sinclair; Cogswell; McPhee. *Passed*—Fairweather, F. L.; Hamilton; Ruggles; Notting; White.

CONFLICT LAWS.

Class I—Robertson; Caham; McDonald, Wm.; Paton; McNeill; Allison; Wickwire; McDonald, Joseph; Shaw. *Class II*—Notting; McDonald, Allan J. *Passed*—Congdon; Kelly; Logan.

BILLS AND NOTES.

Class I—Howay; Mellich; Robertson; McDonald, Wm.; McBride; Allison; Caham; Roberts. *Class II*—Shaw; Logan; Hamilton; Frame; Paton; Stevens. *Passed*—Armstrong; Bower; Caham; Casey; Cogswell; Davison; Fairweather, F. L.; Fairweather, S. L.; Howatt; Haggins; Kelly; McDonald, A. J.; McPhee; Notting; Oxley; Ruggles; Sinclair; Wickwire.

THIRD YEAR EQUITY.

Class I—Howay; McDonald, Wm.; Mellich; Roberts; Frame; Robertson. *Class II*—Cogswell; McBride; Fairweather; Hamilton; Notting. *Passed*—Armstrong; Bower; Caham; Haggins; Kelly; McPhee; Miller; Oxley; Sinclair; White.

INSURANCE.

Class I—(Howay; Robertson;) Mellich; McDonald, William; McBride. *Class II*—Fairweather; Hamilton; Cogswell; Frame; Roberts; Caham. *Passed*—Sinclair; McPhee; White; Notting; Miller; Bower; Haggins; Oxley; Armstrong; Kelly.

PARTNERSHIP.

Class I—Roberts; Howay; Mellich; Robertson; Allison; Frame. *Class II*—Caham; Sinclair; Cogswell; McDonald, Joseph; McBride; Howatt; Fairweather, F. L.; Ruggles; McDonald, W. Paton; Davison. *Passed*—Armstrong; Caham; Casey; Congdon; Fairweather, S. L.; Hamilton; Haggins; Kelly; LePain; Logan; Miller; McDonald, A. J.; McPhee; Notting; Oxley; Shaw; White; Wickwire.

REAL PROPERTY.

Class I—Kelly; Paton; Dockrill; Smith; Casey; Doyle; Trueman. *Class II*—Calder; Johnstone; Blackadar; Mothers; Fulton, E. M.; Davison. *Passed*—Adams; Bill; Corbett; Crosby; Fraser; Fulton, W.; McDonald, L.; Murray; Sangster.

CRIMES.

Class I—Paton; Fulton, W.; Adams; Sangster; Davison; Dockrill; Scharman. *Class II*—Casey; Johnstone; Murray; Blackadar; Smith; Crosby. *Passed*—Bill; Calder; Corbett; Doyle; Fraser; Fulton, E. M.; Mathers; McDonald, L.; Trueman.

CONTRACTS.

Class I—Scharman; McKenna; Adams; Dockrill; Johnstone; Thompson. *Class II*—Fulton, W.; Fulton, E. M.; Murray; McKinnon; Trueman; Calder. *Passed*—Bill; Blackadar; Casey; Corbett; Crosby; Doyle; Fraser; Kelly; Mathers; McDonald, L.; Sangster; Smith.

TORTS.

Class I—McDonald, W.; Robertson; Johnstone; Fulton, W.; Adams. *Class II*—Paton; Kelly; (Murray; Thompson; Trueman;) Dockrill; Fulton, E. M.; Fraser; Mathers; Blackadar; Casey. *Passed*—Bill; Calder; Corbett; Davison; Doyle; McDonald, L. X.; Sangster; Smith.

SECOND YEAR EQUITY.

Class I—Caham; Allison; Paton; Ruggles. *Class II*—McDonald; Joseph; McDonald, A. J.; Kelly; Fairweather, S. L.; LePain; Caham. *Passed*—Congdon; Davison; Howatt; Logan; Wickwire.

FACULTY OF MEDICINE.

PRIMARY B. D. C. M. EXAMINATIONS.

CLASS LISTS.

(Containing the names of students who have passed in the various subjects.)

PHYSIOLOGY (including Histology).—Grant, William; Hamilton, Charles A.; Johnson, Isaac W.; Woodworth, Percy C.

CHEMISTRY (including Practical Chemistry).—Grant, William; Johnson, Isaac W.; McCharles, Rodk. W.; Woodworth, Percy C.; Hamilton, Charles A.

ANATOMY (including Practical Anatomy).—Grant, Wm.; Hamilton, Charles A.; Johnson, Isaac W.; Keat, Hedley Vicars; McCharles, Roderick W.; Purcell, John M.

MATERIA MEDICA (including Therapeutics and Pharmacy).—Grant, William; Hamilton, Charles A.; Johnson, Isaac W.; McCharles, Rodk. W.; Woodworth, Percy C.

BOFANY.—Chisholm, Alexander J.; Cosdy, Patrick; Deckman, Andrew A.; Dennison, Howard S.; Drysdale, George N.; Fairbanks, Harry G.; Irwin, Arthur; McDonald, John C.; McAlley, Murdoch W.; Meyer, Edward J.; Morrison, D. A.; Rice, Frank E.; Turnbull, Geo. D.

PRACTICAL CHEMISTRY.—Drysdale, George N.; Walsh, Thomas W. **SURGERY**.—Keat, Hedley Vicars.

CHEMICAL SURGERY.—Keat, Hedley Vicars.

MEDICINE.—Keat, Hedley Vicars.

CHEMICAL MEDICINE.—Keat, Hedley Vicars.

OBSTETRICS AND DISEASES OF WOMEN AND CHILDREN.—Keat, Hedley Vicars.

* Not including Practical Chemistry.
† Including Histology.

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 errors or omissions in the following list.

28 Adams, H. S., Jesuits' College, Montreal.....	B. A., 1884
29 Aiton, W., Sussex, N. B.....	B. A., 1885
30 Allan, Rev. John M., Edinburgh.....	B.A., 1872; M. A., 1876
Allison, Edmund P., Halifax, N. S.....	B. A., 1889
Allison, Matthew G., Windsor, N. S.....	B. A., 1890
Anzard, Rev. Joseph, New Brunswick.....	B.A., 1899; M. A., 1872
Archibald, Rev. F. W., M. A., B.D., P. A. D., (obit.)	B. A., 1877
Archibald, Rev. W. P., Cavendish, P. E. I., B.A.,	1873; M. A., 1878
Armstrong, E. H., Weymouth Bridge, N. S.....	L.L.B., 1888
Armstrong, B. H., Halifax.....	L.L.B., 1890
Bayne, Prof. H. A., Ph. D., F. R. S. C., (obit.).....	B.A., 1899; M. A., 1872
31 Bell, F. H., Halifax.....	B. A., 1870
32 Bell, J. A., Riverside, Cal.....	B. A., 1883
Bennett, A. W., Hopewell, N. B.....	L.L.B., 1885
Bethune, J. L., Baddeck, C. B.....	M. D., C. M., 1875
Blanchard, C. W., Truro.....	B. A., 1890
Boak, H. W. C., Halifax.....	L.L.B., 1883
Bower, Wm. J., Kingston, N. B.....	L.L.B., 1890
33 Bruce, Ernest N., Lower Newcastle, N. B.....	B. A., 1883
Brown, Rev. W. T., M. D., Caldwell, Cal. Co.....	B. A., 1872
Byden, Rev. C. W., Solihull.....	B. A., 1873
34 Buchanan, James J., Sydney, C. B.....	B. A., 1887
Burgess, Rev. J. C., Danville, Cal., U. S. A.....	B. A., 1867
35 Burkitt, Robert J., Athlone, Ireland.....	B. A., 1889; M. A., 1890
Cahan, Charles H., M. P. P., Halifax.....	B. A., 1889; L.L.B., 1890
Cairns, Rev. J. A., M. A., Upper Musquodoboit.....	B. A., 1878
Collier, Rev. John, Springville, N. S.....	B. A., 1886
Calkin, Wm. S., Truro.....	B. A., 1887
Cameron, A. G., Newton, Gaspere.....	B.Sc., 1882
36 Cameron, C. S., Halifax.....	B. A., 1879
37 Cameron, Rev. J. H., Bass River, N. B.....	B. A., 1878

1 Graduated with First Rank Honours in Classics.

2 Graduated with Second Rank Honours in Classics.

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

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

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

6 Governor-General's Gold Medalist.

7 Governor-General's Silver Medalist.

Cameron, William, Merigenthal, N. S.....	B. A., 1873
Cameron, Rev. J. J., Shakenope, Ont., B. A., 1869; M. A.,	1871
Campbell, Alexander J., Truro, N. S.....	B. A., 1886; L.L.B., 1889
Campbell, Alexander, Sydney, C. B.....	L.L.B., 1889
Campbell, D. A., Halifax, N. S.....	M. D., C. M., 1874
Campbell, D. F., E. River, St. Mary's, N. S.....	B. A., 1860
Campbell, George G., Truro.....	B.Sc., 1888
38 Campbell, George M., Truro.....	B. A., 1882
Campbell, J. B., Jr., St. John, N. B.....	L.L.B., 1888
Campbell, William H., Truro.....	B. A., 1887
Carmichael, J. M., New Glasgow, N. S.....	B. A., 1872
Carr, Rev. A. P., Alberton, P. E. I.....	B.A., 1868; M. A., 1871
Carson, Rev. G. S., Pictou, N. S.....	B. A., 1892
Carter, Titus James, Andover, N. B.....	L.L.B., 1887
Carter, William D., Richibucto, N. B.....	L.L.B., 1889
Chambers, F. B., Truro.....	B. A., 1879
Chambers, R. E., Truro.....	B. A., 1877
Chapman, A. E., Salisbury, N. B.....	B. A., 1890
Chase, Rev. J. H., Ouelow.....	B. A., 1890; M. A., 1869
Chisholm, Den., Antigonish.....	M. D., C. M., 1874
Chisholm, Joseph A., Halifax.....	L.L.B., 1886
Christie, Rev. T. M., (obit.).....	B. A., 1868
Clarke, Daniel McD., West River, Pictou Co., N. S.....	B. A., 1889
Cloney, Andrew, Halifax.....	L.L.B., 1887
39 Coffin, Rev. Fulton J., Trinidad.....	B. A., 1886
Coffin, F. S., M. A., Mt. Stewart, P. E. I.....	B. A., 1885
40 Coffin, Victor E., Mt. Stewart, P. E. I.....	B. A., 1887
Copwell, G. A., Port Williams, N. S.....	B. A., 1860
Copson, Fred. T., L.L.B. (Toronto), Halifax, <i>ad eundem gradum</i> ,	L.L.B., 1889.
41 Coops, Frank H., Milton, Queen's Co.....	B. A., 1887
Coutley, Alfred, Halifax.....	B. A., 1881
Cox, Robinson, Stewacke.....	M. D., C. M., 1873
Creehan, Rev. D. F., (obit.).....	B. A., 1873; M. A., 1889
42 Creehan, H. G., B.Sc., Vans Donlop Scholar, Edinburgh Univ.,	B. A., 1881.
Creighton, J. G. A., Montreal.....	B. A., 1868
Creighton, H. S., Dartmouth.....	B. A., 1889
43 Creighton, James E., Instructor Cornell Univ., Ithaca, N. Y.,	B. A., 1887.

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 Graduated with First Rank Honours in Mental and Moral Philosophy.

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

6 DeMilt Gold Medalist.

7 Governor-General's Gold Medalist.

8 Governor-General's Silver Medalist.

9 Sir William Young's Gold Medalist.

10 Vans Donlop Tutor in Mathematics, 1860-5.

Macdonald, C. D., Pictou	B. A., 1873
Macdonald, Rev. Donald, <i>R. D.</i> , Port Hastings, C. B.	B. A., 1884
Macdonald, Ed. M., Pictou	Lt.B., 1887
²⁴ Macdonald, J. A., Halifax	B. A., 1883; Lt.B., 1886
Macdonald, J. H., (obit.)	B. A., 1867; M. A., 1879
Macdonald, Robt. J., Floppewell, N. S.	B. A., 1889
Macdonald, William, Pictou	B. A., 1888
Macdonald, Wm., B. A., Pictou	Lt.B., 1899
Macdonald, W. M., Halifax	B. A., 1888
McDowell, Isaac, (obit.)	B. A., 1874
McGregor, Rev. Daniel, Amherst	B. A., 1874
MacGregor, Prof. J. G., <i>D.Sc.</i> , <i>P. R. SS. E. & C.</i> , Halifax, B. A., 1871; M. A., 1874.	
²⁵ MacGregor, T. S., Little Bras d'Or, C. B.	B. A., 1882
McJames, Hector, Halifax	Lt.B., 1888
Mackay, Adams A., B. A., Halifax, N. S.	Lt.B., 1888
²⁶ MacKay, A. H., <i>B.Sc.</i> , <i>P. R. S. C.</i> , Pictou	B. A., 1873
MacKay, D. O., Hantibell, Pictou Co.	B. A., 1860
²⁷ MacKay, Ebenezer, High School, New Glasgow, N. S. B. A., 1886	
MacKay, H. M., Academy, Pictou, N. S.	B. A., 1888
MacKay, Rev. Kenneth, Richmond, N. B.	B. A., 1898
²⁸ MacKay, Neil F., Regina, Man	B. A., 1884
McKen, Rev. J. A., Orono, Ont	B. A., 1873
²⁹ MacKenzie, A. S., Scholar, Johns Hopkins Univ., Baltimore, B. A., 1885.	
McKenzie, Hugh, Truro	B. A., 1872; M. A., 1873
MacKenzie, Prof. J. J., <i>Ph. D.</i> , (obit.), B. A., 1869; M. A., 1872	
McKenzie, Rev. James, Piquash	B. A., 1878
McKenzie, Rev. J. W., East St. Peter's, P. E. I.	B. A., 1882
McKenzie, William J., West Bay, C. B.	B. A., 1888
MacKinnon, Don. Alex., Georgetown, P. E. I.	Lt.B., 1887
MacKinnon, J. A., Cow Bay, C. B.	B. A., 1899
MacKintosh, D. C., Springville, N. S.	B. A., 1899
³⁰ McKittick, Burgess, Sydney, C. B.	B. A., 1877
McLatchy, Henry F., Hillsboro', N. B.	Lt.B., 1887
³¹ McLean, I. M., <i>M. D.</i>	B. A., 1879
McLean, Rev. J. A., Harvey, N. B.	B. A., 1876
McLennan, Daniel, Port Hood, C. B.	Lt.B., 1888
McLennan, J. W., B. D., Sydney, C. B. B. A., 1883; M. A., 1887	
McLennan, S. J., Sydney, C. B.	B. A., 1888

¹ Graduated with Second Rank Honours in Classics.² Graduated with Second Rank Honours in Mathematics and Math. Physics.³ Graduated with First Rank Honours in Experimental Physics and Chemistry.⁴ Graduated with Second Rank Honours in Experimental Physics and Chemistry.⁵ Governor-General's Gold Medalist.⁶ Governor-General's Silver Medalist.⁷ Sir William Young Gold Medalist.⁸ Mackenzie Gold Medalist.⁹ Munn's Tutor in Mathematics, 1867-99.

McLeod, Rev. A. W., <i>Ph. D.</i> , Vale, Pictou Co. B. A., 1879; M. A., 1878	
³² MacLeod, Ambrose W., Dunstaffnage, P. E. I.	B. A., 1888
McLeod, Rev. Don., Pictouville, Ont	B. A., 1874
³³ MacLeod, F. J., Charlottetown, P. E. I.	B. A., 1890
³⁴ MacLeod, George, Murray River, P. E. I.	B. A., 1888
McLeod, J. M., <i>M. A.</i> , Valleyfield, P. E. I.	B. A., 1885
MacLeod, Rev. J. W., (obit.)	B. A., 1878; M. A., 1880
³⁵ McLeod, J. P., Principal High School, Victoria, B. C. B. A., 1884	
³⁶ McLeod, Malcolm J., Belfast, P. E. I.	B. A., 1887
McMillan, Finlay, Sheet Harbor, N. S.	M. D., C. M., 1872
McMillan, Rev. G. W., Malpasco, P. E. I.	B. A., 1875
McNaughton, Rev. Samuel, Preston, G. B. B. A., 1867; M. A., 1870	
McNeill, Albert H., Charlottetown, P. E. I.	Lt.B., 1880
McNeill, Charlotte M., Charlottetown, P. E. I.	B. A., 1887
McPhee, D. L., Little Bras d'Or, C. B.	Lt.B., 1890
Macrae, Alex. W., St. John, N. B.	B. A., 1886
McRae, William, (obit.)	M. D., C. M., 1872
Magas, Edgar A., Vancouver, B. C.	Lt.B., 1888
³⁷ Martin, K. J., Charlottetown, P. E. I.	B. A., 1885
Mason, Rev. W. A., Georgetown, P. E. I.	B. A., 1877
Matheson, J. A., Halifax, N. S.	B. A., 1888
Melish, H., Charlottetown, P. E. I.	B. A., 1882; Lt.B., 1890
Millar, Rev. E. D., Lunenburg	B. A., 1819
Miller, Geo., Tatamagouche	B. A., 1860
Müller, J. J., Halifax	B. Sc., 1885
Milliken, Albert E., Moncton, N. B.	Lt.B., 1886
Mooney, P. C. C., Halifax	Lt.B., 1886
Moore, Edmund, Chatham	M. D., C. M., 1872
³⁸ Morrison, A. M., Dartmouth, N. S.	B. A., 1888
Moreison, Aulay, New Westminster, B. C.	Lt.B., 1888
Morse, C., Ottawa	Lt.B., 1885
Morton, Joseph H., <i>M. D.</i> , Shelburne	B. A., 1876
³⁹ Morton, Silvanus A., Milton, Queen's Co., N. S.	B. A., 1886
Muir, W. H., <i>L. E. C. P. & S. Edis.</i> , Truro, M. D., C. M., 1875	
Munro, Rev. J. R., Antigonish, N. S.	B. A., 1876
Munro, G. W., 17-25 Vandewater St., New York	B. A., 1878
Murray, J. S., North Sydney, C. B.	B. A., 1877
⁴⁰ Murray, Prof. D. A., Univ. of City of New York	B. A., 1884

¹ Graduated with First Rank Honours in Classics.² Graduated with First Rank Honours in Greek and English.³ Graduated with First Rank Honours in English and English History.⁴ Graduated with Second Rank Honours in Mental and Moral Philosophy.⁵ Graduated with First Rank Honours in Mathematics and Mathematical Physics.⁶ Graduated with Second Rank Honours in Mathematics and Math. Physics.⁷ DeMott Gold Medalist.⁸ Governor-General's Gold Medalist.⁹ Governor-General's Silver Medalist.¹⁰ Sir William Young's Gold Medalist.¹¹ Munn's Tutor in Mathematics, 1867-7.¹² Munn's Tutor in Classics, 1867-7.

Newcombe, E. L., <i>L.L. B.</i> , Halifax.....	B. A., 1878; M. A., 1881
² Newcombe, Margaret F., Ladies' College, Halifax.....	B. A., 1885
¹² Nicholson, Alfred, <i>M. A.</i> , Southport, P. E. I.....	B. A., 1886
Notting, Thomas, Truro.....	L.L.B., 1869
Osley, C. H., <i>B. A.</i> , Oxford, N. S.....	L.L.B., 1890
¹⁰ Osley, J. M., <i>L.L. B.</i> , Ottawa.....	B. A., 1874
Paton, Vincent J., Halifax, N. S.....	B. A., 1889
Patterson, G. G., New Glasgow, B. A., 1882; M. A., 1887; L.L.B., 1889	
Pithblado, Colin.....	B. A., 1876
Pollek, A. W., (obit.).....	B. A., 1872
Putnam, Homer, Lower Ouslow, N. S.....	B. A., 1889
Putnam, William G., Maitland.....	B. A., 1887
Rattee, E. J., Owen Sound.....	B. A., 1890
²¹ Reid, A. G., Halifax.....	B.Sc., 1885
²¹ Ritchie, Elias, <i>Ph.D.</i> , Assoc.-Prof., Wallesey College, B. L., 1887	
Robert, Casimir, Arichat, G. B.....	M. D., C. M., 1875
Roberts, J. A., Bridgewater.....	L.L.B., 1899
Robertson, Henry McN., Harrington, N. S.....	L.L.B., 1886
Robertson, T. R., Annapolis, N. S.....	B. A., 1888; L.L.B., 1890
¹⁴ Robinson, Alexander, Sarnex, N. B.....	B. A., 1886
¹⁴ Robinson, G. E., Charlottetown, P. E. I.....	B. A., 1886
Robinson, Rev. J. M., Moncton.....	B. A., 1873
Rogers, Rev. Anderson, Yarmouth.....	B. A., 1887
Rogers, Henry W., Amherst.....	L.L.B., 1887
Ross, Alexander, Dalhousie, N. B.....	B. A., 1867
Ross, Henry T., <i>B. A.</i> , Bridgewater.....	L.L.B., 1889
Ross, Rev. William, Prince William, N. B.....	B. A., 1872
²⁰ Rowlings, G. A. R., Messagobolbit Harbor.....	B. A., 1890
Russell, Rev. A. G., Oyster Bay, L. I., N. Y.....	B. A., 1871
Russell, Joseph A., Vancouver, B. C.....	L.L.B., 1887
¹⁵ Selverman, G. W., Freetown, P. E. I.....	B. A., 1890
Scott, Rev. Ephraim, New Glasgow.....	B. A., 1872; M. A., 1875
Scott, Rev. Prof. H. McD., <i>B. D.</i> , Chicago.....	B. A., 1879
Scott, J. McD., (obit.).....	B. A., 1877
Sedgewick, J. A., Halifax.....	B. A., 1885
Sedgewick, Robert, Q.C., Dep. Min. of Justice, Ottawa, B. A., 1867	
¹⁶ Shaw, Henry C., Stanhope, P. E. I.....	B. A., 1887
¹⁶ Shaw, James C., Stanhope, P. E. I.....	B. A., 1887
Shaw, Robert, (obit.).....	B. A., 1866
Simpson, Rev. Isaac, New York State, U. S. A.....	B. A., 1868

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 Mental and Moral Philosophy.

⁴ Graduated with Second Rank Honours in Mental and Moral Philosophy.

⁵ Graduated with First Rank Honours in Mathematics and Mathematical Physics.

⁶ Graduated with Second Rank Honours in Mathematics and Math. Physics.

⁷ Graduated with General Distinction of First Rank.

⁸ Governor-General's Gold Medalist.

⁹ Sir William Young's Gold Medalist.

Sinclair, J. A., St. John, N. B.....	L.L.B., 1860
Smith, Rev. D. H., Truro.....	B. A., 1867; M. A., 1871
Smith, Rev. Edwin, Steviaska.....	B. A., 1867
Smith, E. K., Truro, N. S.....	B. A., 1893
Smith, H. McN., Halifax.....	B.Sc., 1884
¹³ Smith, James F., <i>B. D.</i> , River Hebert, N. S. B. A., 1886; M. A., 1890	
Smithers, Allan, Halifax, N. S.....	B. A., 1886
¹⁷ Solomon, D. M., Pictou.....	B. A., 1888
Spencer, Rev. W. H., Montague, P. E. I.....	B. A., 1881
Stevens, D. J., Halifax.....	L.L.B., 1890
Stewart, Alexander F., Pictou.....	B. A., 1887
¹⁸ Stewart, Anne A., Pictou.....	B.Sc., 1886
¹⁸ Stewart, Dugald, Upper Messagobolbit, N. S.....	B. A., 1886
Stewart, F. I., Charlottetown, P. E. I.....	B. A., 1889
¹⁹ Stewart, J. McG., Pictou.....	B. A., 1876
Stewart, Rev. Thomas, <i>B. D.</i> , Sussex, N. B.....	B. A., 1882
Strasburg, H. M., New Westminster, B. C.....	B. A., 1875
Sutherland, Rev. J. M., Virdee, Man.....	B. A., 1869
Sutherland, Robert, (obit.).....	M. D., C. M., 1872
²² Sutherland, J. S., St. James, Char. Co., N. B.....	B. A., 1888
Taylor, W. R., (obit.).....	B. A., 1884
²³ Thompson, A. W., <i>M. A.</i> , Durham, Pictou Co.....	B. A., 1883
Thompson, Stanley R., Oxford, N. S.....	L.L.B., 1886
Thomson, A. E., Halifax.....	B. A., 1889
Thomson, Walter K., Halifax.....	L.L.B., 1887
Thorburn, W. M., I. C. S., Madras Pres., India.....	B. A., 1879
Tobin, Thos. F., Halifax, N. S.....	L.L.B., 1889
Tovey, E. J., Windsor.....	B. A., 1882
Troop, Arthur G., <i>A.B.</i> , Dartmouth, N. S.....	L.L.B., 1886
Trossman, A. I., St. John, N. B.....	B. A., 1872; M. A., 1878
²⁴ Trossman, Prof. J. S., Allegheny Coll., Meadville, Pa.....	B. A., 1882
Tuffis, Rev. W. M., <i>M. A.</i> , Bedouque, P. E. I.....	B. A., 1883
Turner, D. F. D., London, G. B.....	B. A., 1884
¹⁴ Waddell, Prof. John, <i>Ph. D.</i> , <i>D. Sc.</i> , Kingston, Ont.....	B. A., 1877
Wallace, Rev. John, Grisdley, Cal., U. S. A.....	B. A., 1887
Wallace, W. B., Halifax.....	L.L.B., 1885
Walsh, Wm. W., Halifax.....	L.L.B., 1886
Wells, Wm. W., Point de Buie, N. B.....	L.L.B., 1886
Whitford, Jos. A., Bridgewater, N. S.....	L.L.B., 1889
Whitman, Alfred, Halifax.....	B. A., 1878; L.L.B., 1885

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 Graduated with First Rank Honours in Mathematics and Math. Physics.

⁵ Graduated with Second Rank Honours in Mathematics and Math. Physics.

⁶ Governor-General's Gold Medalist.

⁷ Governor-General's Silver Medalist.

⁸ Mazon Tutor in Classics, 1865-6.

UNDERGRADUATES, 1890-00

I N A R T S.

FOURTH YEAR.

Campbell, Donald Frank	East River, St. Mary's, N. S.
Chapman, Adolphus Eugene	Salisbury, N. B.
Cogswell, George Alfred	Port Williams.
Fisher, James Mitchell	Lower Stewiacke.
Fulton, Eben	Middle Stewiacke, N. S.
Grierson, Robert	Halifax.
Laird, Alexander	Salisbury, Ont.
Lewis, Ernest William	Moncton, N. B.
McKay, Duncan Oliver	Heschehall, Pictou Co.
Mackinnon, John Archibald	Cow Bay, C. B.
Mackintosh, David Charles	Springville.
MacLeod, Frederic Joseph	Charlottetown Royalty, P. E. I.
Millar, George	Tatamagouche.
Rattoe, Edward Joseph	Clifton-on-Sea, Essex, England.
Rowlings, George Anderson Row	Musquodoboit Harbour.
Saunders, Maria Freeman	Halifax.
Scharman, George Wellington	Freetown, P. E. I.
Smith, Edmund Betterell	Truro.

THIRD YEAR.

Baxter, Agnes Sims	Halifax.
Beckant, James William	Murray Harbour, P. E. I.
Cox, George Hastings	Shelburne.
Goodwin, Emily Maud	St. John, N. B.
Grierson, John Arthur	Kentville.
Hugh, David Douglas	Murray Harbour, P. E. I.
Jordan, Elijah John	Murray Harbour, P. E. I.
Kennedy, James Simon	Port Philip, Camb. Co., N. S.
McCarty, James Faughar	Halifax.
MacGushen, John Archibald	New Glasgow, N. S.
Maclean, John Brown	Hopewell, N. S.
McMillan, Charles Edward	Whysoomagh, C. B.
McMillan, Frederick Alex	Albany Falls, P. E. I.
McNaughton, Elizabeth	St. John, N. B.
Macrae, Archd. Oswald	St. John, N. B.
Magee, Wm. Henry	Kings Co.
Moore, Clarence Leander	Salisbury, N. B.
Mossah, Albert Victor	Lunenburg.
Munro, Christopher	Valleyfield, P. E. I.
Oliver, Alysie Cushing Littlefield	Digby.
Rushman, Chas. David	Pictou.
Stain, Henry Bertram	Halifax.

Thompson, Fenwick Williams	Merigonish.
Thomson, James William	Halifax.
Tappey, James Waddell	New Glasgow, N. S.
West, Thos. Fredk	York, P. E. I.

SECOND YEAR.

Archibald, Sarah Elizabeth	Sherbrooke.
Bakin, Frank Wrigit Midge	Digby.
Caldwell, Lillian Beecham	Berwick, N. S.
Campbell, Robert Sadgwick	Tatamagouche.
Doherty, Philip	Halifax.
Douglas, Ernest Augustus	Maitland, N. S.
Fullerton, Archibald	Annapolis.
Graham, Robert Henry	New Glasgow, N. S.
Harrington, Emily Beran	Halifax.
Hill, Albert Ross	Five Islands, N. S.
Johnson, George Fulton	Wardner, Idaho, U. S. A.
Johnson, James Boyce	Loch Broom, Pictou Co.
Logan, John Daniel	Pictou.
Macdonald, Alvin Fraser	Hopewell, N. S.
McDonald, Alex. John	Malagawatch, Inv. Co., C. B.
McIntosh, Don. Sutherland	Pleasant River, Inv. Co., C. B.
McIntosh, John Alex	Halifax.
Mackay, Murdoch Sutherland	Cariboo River, N. S.
McKee, George Wilbert	Baddeck, C. B.
Mackenzie, Alex.	Baddeck, C. B.
McNeill, Bobb	St. Catherine's, P. E. I.
Mahon, James Arthur	Truro.
Morrison, Wm. Chisholm	Loch Lomond, N. S.
Pelton, Chas. Sandford	Yarmouth, N. S.
Sutherland, James Alex	River John, N. S.
Thompson, Willard Sutherland	New Glasgow, N. S.
Webster, Kenneth Grant Tremaine	Yarmouth.
Wenton, Rolfe Andrew	St. John, N. B.
Weston, Clara Palmae	St. John, N. B.

FIRST YEAR.

Anand, Edward Ernest	Truro, N. S.
Barnston, Arthur S.	Halifax, N. S.
Dodge, Blanchard	Halifax, N. S.
Fishyean, Duncan	Grand River, C. B.
Forbes, Edgar William	Dartmouth, N. S.
Grant, Robert J.	Stony Brook.
Jamieson, Harriet Jane	Halifax, N. S.
Kellogg, Mary Helen	Halifax, N. S.
Logan, Joshua Wilbert	Pictou.
McArthur, Samuel Johnson	Tyde Valley, P. E. I.
McKay, Thomas Calvin	Dartmouth, N. S.

McLean, Charles Archibald.....	Englestown, C. B.
McNutt, Ervin.....	Halifax, N. S.
Murray, Lucy Christine.....	Sudholm, N. B.
O'Brien, Robert F.....	Noel, Haas Co., N. S.
Putnam, Henry.....	Lower Onslow.
Rankin, James.....	New Westminster, B. C.
Robinson, David Magoz.....	Sussex, N. B.
Ross, George Edward.....	Newport, Haas Co., N. S.

IN LETTERS.

THIRD YEAR.

Mair, Ethel.....	Annadale St., Halifax.
Montgomery, John.....	Dalhousie, N. B.

FIRST YEAR.

Fraser, James Gordon.....	New Glasgow, N. S.
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IN SCIENCE.

FIRST YEAR.

Arthur, George.....	Alberton, P. E. I.
Keating, Sedley Charles.....	Halifax, N. S.

IN LAW.

THIRD YEAR.

Allison, Edmund P., B. A.....	Halifax.
Armstrong, Bennett Horsely.....	Halifax.
Bowser, William J.....	Kingston, Kent, N. B.
Cahan, Charles Basilitt, B. A.....	Halifax.
Fairweather, Frederick Lawrence.....	Sussex, N. B.
Fraser, Joseph Fulton.....	Maitland.
Hamilton, Charles Francis, B. A.....	North Sydney.
Howay, Frederick William.....	New Westminster, B. C.
Huggins, William Hugh.....	Halifax.
Masonald, William, B. A.....	Pictou.
McBride, Richard.....	New Westminster, B. C.
McPhee, Daniel Lucian.....	Little Bras d'Or, C. B.
Mellish, Humphrey, B. A.....	Charlottetown, P. E. I.
Netting, Thomas.....	Truro.
Ozley, Charles Howard, B. A.....	Oxford, N. S.
Roberts, John Arthur.....	Bridgewater, N. S.
Robertson, Thomas Reginald, B. A.....	Amazolla.
Sinclair, J. A.....	St. John, N. B.
Stevens, Daniel Joshua.....	Halifax.

SECOND YEAR.

Calahan, Thomas J.....	Halifax.
Congdon, Frank Hinkle.....	Halifax.
Davidson, James MacGregor, B. A.....	Halifax.
Fairweather, Stewart Lee.....	St. John, N. B.
Howatt, Cornelius Alfred.....	Halifax.
LePage, Alfred Wilnot.....	Alma, N. B.
Legan, Rance James.....	Amherst.
McDonald, Allan Joseph, B. A.....	Little Glouce Bay, C. B.
McDonald, Joseph.....	North Sydney.
McNeil, Alexander, B. A.....	Port Hood.
Paton, Vincent J., B. A.....	Halifax.
Ruggles, Nepean Clarke.....	Halifax.
Shaw, Alfred Enos, B. A.....	Aronport.
Wickwise, Harry Ham, B. A.....	Rothsay.

FIRST YEAR.

Adams, John Phillips.....	Campbellton, N. B.
Blackadar, Hugh Saxon, B. A.....	Halifax.
Bill, Edward Manning, B. A.....	Billtown, N. S.
Cosey, Clarence Edward, B. A.....	Halifax.
Corbett, Jacob Edward.....	Folly Village.
Crosby, Barnard Richards.....	Yarmouth.
Dockrill, George O'Gorman Mahon.....	New Westminster, B. C.
Doyle, Matthew Nicholas.....	Halifax.
Fraser, Alexander Hugh Ross.....	Port Hood, C. B.
Fulton, Edgar Melville.....	Truro.
Fulton, Joseph Avarad.....	Lower Stewiacke.
Fulton, Willard Hill, B. A.....	Halifax.
Johnstone, Lewis Martin.....	Halifax.
Kelly, James King.....	St. John, N. B.
Masheux, Frederick Francis.....	Halifax.
McDonald, Launchin Xavier.....	Sydney, C. B.
McKitterick, Burgess, B. A.....	Sydney, C. B.
Murray, Robert Grey.....	St. John, N. B.
Sangster, Herbert Warren, B. A.....	Sackville, N. B.
Smith, Boyer Salacy.....	St. John, N. B.
Treeman, Walter Harley.....	St. John, N. B.

IN MEDICINE.

FOURTH YEAR.

Kent, Hedley Vears.....	Truro.
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THIRD YEAR.

Hamilton, Charles Alfred.....	Boylston.
Johnson, Isaac Wellwood.....	Tatamagouche.
Walsh, Thomas William.....	Halifax.

SECOND YEAR.

Fairbanks, Harry Gray	Halifax.
Grant, William	Benfordville, C. B.
Irwin, Archer	Shalburne.
McCharles, Roderick William	Middle River, C. B.
Turnbull, George Dykeman	Digby.
Woodworth, Percy Churchill	Kentville.

FIRST YEAR.

Chisholm, Alexander Joseph	St. Andrews, N. B.
Coady, Patrick	Margaree Forks, C. B.
Dookins, Andrew Arthur	Sherbrooke.
Denmore, Howard S.	Noel Shore.
Drysdale, George Nelson	Halifax.
Kenedy, James Simon	Port Phillip.
Meyer, Edward James	Halifax.
Moerion, Daniel Allan	Loch Lomond, C. B.
McAtlay, Marbock William	Grand River, C. B.
McDonald, John Clyde	Riverside Corner.
McLeod, Thomas Chalmers	Sydney, C. B.
Rice, Frank Ernest	Digby.

GENERAL STUDENTS, 1889-90.

IN ARTS.

Boak, Louis	Halifax, N. S.
Barkitt, R. J., B. A.	Athensy, Ireland.
Barns, Nettie G.	Halifax, N. S.
Cameron, Daniel Alexander	Sydney, C. B.
Campbell, Donald McDonald	Kingsess, P. E. I.
Cox, Harry Wilkes	Halifax.
Dickie, Emma	Upper Stewiacke, N. S.
Forrest, Alexander Watson	Halifax.
Forrest, Elizabeth J.	Halifax.
Fraser, James McKay	New Glasgow.
Fraser, Simon Alexander	Halifax.
Harrington, John Geddis	Halifax.
Hatfield, Byron Urie	Port Gerville, Cumberland, N. S.
Hattie, Joseph H.	Caledonia, N. S.
Holbrecker, Clara Charlotte	Halifax.
Howatt, Cornelius Alfred	Summersdale, P. E. I.
Huestis, Linnie Starr	Halifax.
Keefer, Ralph Tupper	Bridgewater, N. S.
Kirk, Joseph Howe	Cross Roads, St. Mary's, N. S.
Leah, Gerald Abington	N. W. Arm, Halifax.
Liechti, Bertha	Halifax.
Logan, John Herbert	Halifax.
McDonald, Ida Grace	Sherbrooke.
McKay, Daniel McGregor	Leone, N. S.
MacMechan, Edith	Halifax.
Martin, Albert	Valleyfield, P. E. I.
Mitchell, George Fletcher	Canning, N. S.
Murray, Robert Harper	Halifax.
Myers, James Scott	Halifax.
Newcombe, Margaret Florence	B. A. Halifax.
Palmer, Jane V.	Ottawa.
Parker, Lewis Westworth	Canning, N. S.
Rettle, Lola Mille	Truro, N. S.
Ross, Hedley	Stanley, P. E. I.
Sangster, Herbert Warren	Sackville, N. B.
Sanders, Marshall	Halifax.
Shaw, George Smith	St. John, N. B.
Simpson, Frank Stuart	Halifax.
Tobin, William Richard	North Sydney, C. B.
Turner, Marion Dickinson	Truro, N. S.

IN LAW.

Armstrong, Joseph Hornsby.....	Halifax.
Cahler, Fred	West Bay, Inverness, C. B.
Cogswell, Edward B.....	Kentville.
Fraser, James Gordon	New Glasgow.
Grierson, J. Arthur	Halifax.
Mackinnon, John A.....	Cow Bay, C. B.
McKenna, Louis Augustus	Dartmouth.
Miller, Oliver	Bridgetown.
Montgomery, John	Dalhousie, N. B.
Schurman, George Wellington.....	Freetown, P. E. I.
Stairs, Henry Bertram	Halifax.
Thompson, William Ernest	Halifax.
White, Thomas W., B. A.....	Shelburne.

IN MEDICINE.

Buckley, Avery F.....	Halifax.
Logan, Melville D., B. A.....	Halifax.
Pattner, Charles Hermann	Halifax.

SUMMARY.

FACULTY OF ARTS.	
Undergraduates	97
General Students	49
Students, Arts Faculty	137
FACULTY OF LAW.	
Undergraduates	54
General Students	13
Students, Law Faculty	67
FACULTY OF MEDICINE.	
Undergraduates	22
General Students	3
Students, Medical Faculty	25
Students, Faculties of Arts, Law and Medicine	229
Deduct, studying in more than one Faculty	8
Total	221

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 in 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:

HON. D. C. FRASER, B. A., M. L. C.....	<i>President.</i>
H. W. C. BOAK, LL. B.,	
C. H. CARRAN, B. A., LL. B., M. P. P.,	} <i>Vice-Presidents.</i>
A. H. MACKEY, B. A., B. Sc.,	
W. D. CAMERON,	
HOWARD MURRAY, M. A.,	
JAS. A. SEDGEWICK, B. A., LL. B.....	<i>Treasurer.</i>
HECTOR MOÏSSES, LL. B.....	<i>Secretary.</i>
ADAMS A. MACKAY, B. A., LL. B.,	} <i>Members of Executive Com.</i>
J. C. SHAW, B. A.,	
W. R. WALLACE, LL. B.,	
J. G. MACGREGOR, M. A., D.Sc.,	
W. R. CAMPBELL, B. A.,	

APPENDIX.

EXAMINATION PAPERS, 1889-90.

FACULTY OF ARTS.

MATRICULATION

AND

JUNIOR MUNRO EXHIBITIONS AND BURSARIES.

LATIN.

Examiner JOHN JOHNSON, M. A.

(For Matriculation.)

CAESAR: GALLIC WAR, BOOKS II., III., or VIRGIL: ÆNEID,
BOOK I.

TIME: THREE HOURS.

N. B.—Candidates will take Part I., or Part II., and Part III.

I.

A. Translate:

Adnatæ, de quibus supra scripsimus, cum omnibus cepis auxiliis Nervis venissent, hoc pagam sustulæ ex itinere domum reverterunt; cunctis oppidis castellanque desertis sua omnia in unam oppidem egregie natura sanctissimam contulerunt. Quod cum ex omnibus in circuitu partibus altissimas rupes despectusque haberet, sua ex parte leviter adolivis aditus in latissimam sors anapliis doctorem pedum reliquebatur; quem locus duplici altissimo muro munitur: tum magna ponderis saxa et presertim trabes in muro consularant. Ipsi erant ex Cimbris Teutonisque prognati, qui cum iter in provinciam nostram atque Italiam facerent, his impedimentis, quae secum agere se portare non poterant, citra Lunam Rhenum deposita custodiam ex suis ac praesidiis sex milia hominum opa reliquerant. Hi post eorum

obitum multos annos a finitimis exagitati, cum aliis bellum inferrent, alias insulam defenderunt, cunctis eorum omnibus pace facta hunc sibi domiciliu locum elegerunt.

1. "Cum omnibus copiis auxilio Nervili venturum." Parse fully each word in this clause.

2. "Quod cum ex omnibus," et cetera. Parse good. What is its force in this clause?

3. "Cum iter in provincias nostras atque Italian facerent." Write a geographical and historical note on this passage. What was the northern boundary of *Italia* then? What was the ancient name of the large river that flowed in the opposite direction to that of the Rhena?

4. To whom or what do the pronouns "qui," "is," "accus," "illi," "eorum" (in "post eorum obitum"), "eorum omnium," "sibi," refer?

5. Write Caesar's name in full, and name each part of it. What is the date of his campaigns in Gallia? How and when did he die?

II.

B. Translate:

Hæc dum Dardanio Aeneas miranda videntur,
Dum stupet obtutuq; hæret doctus in uno;
Regias ad templum, forma pulcherrima Dido,
Incessit, magnis lævæq; stipante catervis.
Qualis in Eurotas ripis aut per iuga Cynthi
Exeret Diana choros, quam mille secutas
Hinc atq; hinc glomerantur Orontes; ilia phœretas
Fest hæmaro, gradibusq; duas supereminet omnes;
Latæque totidem pertentant gæcilia pectus:
Talis erat Dido, talis ex læta ferabat
Per medias, instans operi reginique futuris,
Tum fortibus divæ, mox totidem tempit.
Sæpta armis, solvique ante ambica, rosellit.

1. "Dardanio Aeneas." Explain the epithet. What others are given to Aeneas in this Book?

2. "Qualis in Eurotas ripis aut per iuga Cynthi." Write geographical notes.

3. "Tum fortibus divæ, mox totidem tempit." Explain testudine.

4. Give the rules for the cases of: "forma," "catervis," "qualis," "fortibus."

5. Parse fully: "miranda," "ripis," "fecit," "sæpta," "armis."

6. In what year of Aeneas's wanderings does the Aeneid begin? What was the cause of them? Whereabouts is the opening scene laid? What is the closing scene of the First Book?

III.

1. Decline throughout:

(a) "aditus," "pedem," "iter," "sibi," (Ext. A.)
or (b) "templum," "domus," "pectus," "operi," (Ext. B.)

2. Compare: fortis, policharimus, leniter, amplius, magnus, multus.

3. What is the Latin for: The wall was twenty feet high. A thousand men were killed. In the year 1778.

4. Write the nom. and gen. sing. (of genders) of: ille, alius, qui, alquis, is.

5. Conjugate:

(a) "Scripturus," "desertis," "comlocant," "deligerant," (Ext. A.)

or (b) "videtur," "haeret," "erret," "resedit," (Ext. B.)

6. Write the 3rd sing. of the pres. and fut. indic. and of the pres. subj. (in the same voice as the given form) of: audio, moror, lego, vivo, patior.

7. Form the 1st sing. imperf. subj. On the same voice as the given form) of: volo (I wish), feror, eo, sum, patior.

8. Translate into Latin: On the following day Caesar led out his troops from the camp.—He ordered the enemy to give him hostages.—For nearly three hours the boys stayed in the same place and then returned to the city.—This year the Senate will give more money for building bridges than it did last year.

(For Junior Museo Exhibitions and Libraries.)

CAESAR: GALRIC WAR, BOOKS II., III. VIRGIL: AENEID, BOOK I.

TIME: THREE HOURS.

A. Translate:

Publius Sextius Iulius, primi pili centurio, quæ Nervio proelio compluribus confectum vulneribus dimissus, et item Gaius Volcanus, tribunus militum, vir et consiliis magis et virtute, ad Gallias adcurrant atque unam esse spem salutis docent, si eruptione facta, extremam auxilium sperentur. Itaque convocatis centurionibus celeriter milites certiores faciit, postquam intertulerunt proelium ad tantummodo tela missæ acciperent neque ex labore reficerent, post dato signo ex castris erumperent atque omnem spem salutis in virtute pararent.

Quod cum esset, faciunt ac subito omnibus portis eruptione facta neque cogitandi, quid fieret, neque sui colligendi hostibus facultatem relinquunt. Ita commutata fortuna eos, qui in spem pedunculorum castrorum venerant, sedique circumstantes interfecerit et ex hominum militibus amplius trigulis, quem numerum barbarorum ad castra venisse constat, plus tertio parte interfectis reliquos perterritos in fugam consistant ac in locis quidem expartibus consistere palancur.

1. "Itaque, convocatis centurionibus, celeriter milites certiores faciit, postquam intertulerunt proelium." Explain the connection of the clauses.

2. "Sui colligendi," "potulendorum castrorum." Note peculiarities of construction.

3. "Primi pili centurio," "tribunus militum," "convocatis centurionibus." Write explanations.

4. "Unam esse spem salutis docent, si, eruptione facta, extremam auxilium sperentur." "neque ex labore reficerent." Turn these sentences into "direct speech."

III.

- Decline (a) in the sing. : Σοφίας, ἡς, ἰσχυρῶς, ἀγάπῃ.
(b) in the pl. : πούρ, αἰσῶν, ἡμῶν, γυναικῶν.
- Compare the adverbs corresponding to these adjectives :
ἀσπίς, ἄλλοι, πάλαι, ἀπόλλυμι, μέγας.
- Decline μέγας and πάλαι in the sing. masculine.
- What pronouns form the nom. neuter sing. in — ?
- Write the contracted forms in the sing. of the present subj. and opt. act. of ἴσθαι.
- Form the perf. infn. act. and pass. of : λείπει, ἰσχυροῦς, ἀγάπη, ἐπιπέμπω, εὐχόμαι.
- Translate into Greek. At daybreak the generals resolved to march on, taking with them the most powerful baggage animals and leaving the rest behind. After marching all day, towards evening they arrived at a village wherein they found all sorts of provisions, wine, bread, fodder, wheat and barley. And Xerophon laide the head-man of the village to be of good cheer, telling him that he would not deprive him of his children. So that night all the soldiers slept in the midst of plenty. On the following day, continuing their march, they reached a river about 300 feet wide, which it was difficult to cross.

FRENCH.

Réviser..... J. LUCURY, M. A.

(For Matriculation.)

Time: THREE HOURS.

1. Translate: Charles XII.—Un jour, au mois de novembre, le même année de la mort de son père, Charles XII. venait de faire la revue de plusieurs régimens; le conseil de l'Etat Piper était après de lui: le roi paraissait altéré dans une rêverie profonde. "Puis-je prendre la liberté, lui dit Piper, de demander à votre majesté à quoi elle songe si sérieusement? Je songe, répondit le prince, que je me sens digne de commander à ces braves gens; et je voudrais que ni eux ni moi ne recussions l'honneur d'une femme." Piper saisis dans le moment l'occasion de faire son grande fortune. Il n'aurait pas osé de crédit pour oser se charger lui-même de l'entreprise dangereuse d'être la régence de la reine, et d'avancer la majesté du roi; il proposa cette négociation au comte Axel Sparre, homme ardent, et qui cherchait à se donner de la considération; il le fit de la confiance du roi. Sparre le crut, se chargea de tout, et ne travailla que pour Piper.

- Parse and give the principal parts of the following verbs:—*venir, être, songer, répondre, avoir, vouloir, répondre, venir, se charger.*
- Charles XII. venait de faire la revue de plusieurs régimens. Write this sentence in the negat. interrog. form. Write down the principal negations, and translate: We have no books. Nothing has happened. Not them (m.) No man. Not one man.

- À ces braves gens.* Parse *ces*, and give its corresp. pronoun. How would the substitution of *vous* for *ces* affect the meaning of the clause? Write the feminine of *vous, père, passer, parait, frais, beau, public, noble*; and the masculine of: *chère, sœur, noble, protecteur, vengeance, amable.*
- Write in French: 75, 56, $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{10}$, 300. What time is it? It is 12 o'clock—half-past one—10 minutes to 4 o'cl. The 19th century.
- Que je me souvi.* Illustrate the use of *que*: (1) as a relative pron.; (2) as an interrog. pron.; (3) as an adv. of quantity. Can you tell the difference between: *vous, sans, avec, et c'en.* Write down the present indicative of: *se charger.*

Charles XII.—Il était à la chasse aux ours quand il reçut la nouvelle de l'irruption des Saxons en Livonie: Il faisait cette chasse d'une manière assez nouvelle que *dangereuse*; on n'avait de autres armes que des bâtons fourchés derrière un filet tendu à des arbres; et un ours d'une grandeur démesurée vint droit au roi, qui le terrassa, après une longue lutte, à l'aide du filet et de son bâton. Il faut avouer qu'un considérant de telles aventures, la force prodigieuse du roi Auguste et les voyages du czar, on craint fort au temps des Hercules et des Thésés.

Il partit pour sa première campagne le seul, nouveau style, de l'année 1700. Il quitta Stockholm, où il ne revint jamais. Une foule inouïe de peuple l'accompagna jusqu'au port de Carlskrona, en faisant des vœux pour lui, en venant des larmes, et en l'admirant. Avant de sortir de Suède il établit à Stockholm un conseil de défense, composé de plusieurs officiers.

- D'une manière assez nouvelle que dangereuse.* Illustrate by short ex. the various forms of comparison: inferiority and superiority; and write down the comparative and superlative of *bon, bien, mauvais, beaucoup, peu.* By what words do you express the absolute superlative very; write a short ex. in illustration.
- Où s'écrit... que des lâches.* Mention the word analogous to *écrit*... *que*. Explain why *où* is used in one part of this clause, and *des* in the other, the two words representing the same parts of speech. Show, giving ex., that some may be translated by: *de l', ce, and quelques.* Write down the subjunctive present of *venir*.
- Ses frères.* Parse *ses*; write its fem., sing. and plural, and give its corresponding pronoun. Does *ses* retain its form in the sentence: His ambition is great; why? Translate: His father and her's. Her brother and sister. His moments. Her Majesty the Queen of England. His Majesty the Emperor of Germany.
- Il parait... cinquans.* When are cardinal numbers substituted for ordinals? give two examples. What other meaning does *cinquans* admit of? Turn into French: I have spent (passed) several weeks in the country. Nova Scotia is my home. Italy is a fair country. This young man is 19 years old. To-day is the 16th of Sept., 1889 (letters).

GERMAN.

Examiner..... J. LEICHT, M. A.

(For Matriculation.)

Time: THREE HOURS.

1. Translate:—*Eiser oder der Anden.*—Zur Zeit Heinrich's IV., Königs von Frankreich, ritt einmal ein Bärenlein von seinem Dorfe nach Paris. Nicht mehr weiß von der Stadt begagnete er einen städtischen Reiter. Es war der König; sein Gefolge war alsobald in stiniger Entfernung gelieben. "Woher des Wegs, mein Freund? Habt ihr Geschäfte in Paris?" "Ja," antwortete der Bauer, "auch möchte ich gern einmal unsern guten König sehen, der sein Volk so ächtlich liebt." Der König schelte und sagte: "Dann kann euch Rath werden." "Aber wenn ich nur wüßte, welcher es ist unter den vielen Hülflingen, von denen er umgeben sein wird. Das will ich euch sagen. Ihr dürft nur Achtung geben, welcher den Hut auf dem Kopfe behalten wird, wann alle Andern sich ehrerbietig werden entblößen haben."

1. Write down the Genitive singular, and the Nominative plural of: *Zeit, Bärslein, Stadt, König, Entfernung, Volk, Hüfling, Hut.*

2. *Ein Bärslein aus seinem Dorfe.* Point out the nouns used in determining the gender of nouns; prefix the definite article to the following nouns: *Bärsleinchen, Festschloß, Palais, Buchlein, Jüngling, Schicksal, Irthum*; give the meaning of each of these words.

3. *Begagnete er einen städtischen Reiter.* Decline in the four cases singular and plural, (using the definite article in the latter); *einen städtischen Reiter.*

4. Determine the case or cases, and, if possible, the gender of the following words, giving their English equivalents: *den, seinen, solche, der, unseren, schüch, große, besten, Freunden, unserer ältesten Tochter, treuen Freunden.* Translate into German: (of) *this good book; (to) my dear brother; my mother's sister; (to) those poor people (Lenten).*

II. Translate:—*Der Wasserver und die Quelle.* Ein Wanderer kam ein heissester Sommer zu einer Quelle. Er war stark und lange gegangener; Schwitzen stand auf seiner Stirne und seine Zunge war vom Durste fast vertrocknet. Da sah er dies silberhelle Wasser, glaubte, hier wolle Kälte zu sammeln und trank mit gierigen Zügen. Aber die schneidende, zu schnell abwechselnde Kälte wirkte so schädlich auf ihn, dass er zu Boden sank. "Ach, schändliches Gift!" rief er. "Wer hätte unter einem so reinenden Ansehen solch eine Bosheit vermutet?" "Ich ein Gift!" sprach die Quelle. "Wahrlich, du verlässest mich. Nur Uebermass und Unvorsichtigkeit von deiner Seite machen dir den Genuss schädlich."

1. Parse the following words: *Im, heissesten, kam, er, war, schnell, dass, kühl.*

2. Mention the class of words that are declined like the *body-faire schiffe*, and write down those that adopt the terminations of the definite article. Turn into German: Which book have you? The children have no bread. I have written (geschrieben) to your father. The child of their friend (fein).

3. Illustrate the various forms used in addressing persons in German. How do you distinguish between: *Sie and sie; Ihr and ihr?*

4. Conjugate the present and the imperfect Indicative of *haben* and *sein.*

ENGLISH.

Examiner..... ARCHD. MACMECHAN, Ph.D.

Time: THREE HOURS.

(For Matriculation, the first five questions. For Bursaries and Exhibitions, the entire paper.)

- Write and punctuate the passage dictated.
- Give a general analysis of the passage dictated as far as "homour."
- Parse in the passage *his, bestowing, score, what.*
- Give in your own words,
 - The plot of your favourite novel; or
 - An account of your summer vacation; or
 - A general description of the city of Halifax.
- Discuss the syntax of the following sentences, correcting where necessary:
 - You little creatures should never wear those sort of clothes.
 - Where was you going last night when Jim seen you?
 - Where's these things of mine?
 - I haven't got no father, and I haven't got no ma.
 - You had'nt ought to say that.
- Reproduce in simple prose the substance of the following:

SCENES.

She had a tall man's height, or more;
No bonnet screened her from the heat;
A long drab-coloured cloak she wore,
A mantle reaching to her feet;
What other dress she had I could not know;
Only she wore a cap that was *as white as snow.*

In all my walks through field or town,
Such figure I had never seen;
Her face was of Egyptian brown;
Fit person was she for a queen.
To heed those ancient Assamian fables;
Or ruling bandit's wife, among the Grecian isles.

Before me begging did she stand,
Fearing out sorrow like a wand,
Grief after grief.—

- Combine each of the following groups into one complex sentence:
 - Men go to sea; they do not know the unhappiness of that way of life; they come to know it; they cannot escape from it; it is then too late to choose another profession.
 - The passions are the greatest masters of human actions; they are sored with impurities; it is necessary that they should be purged or refined; this is done by means of pity and terror.
 - They have drunk wine; every man feels himself happy; he loses that modesty; he grows impatient and vainglorious; he is not improved; he is only not sensible of his defects.

8. Explain all the uses of the word *that*. Illustrate your answer by examples.
9. State as fully as possible what circumstances of diction are still to be found in modern English?

HISTORY AND GEOGRAPHY.

Examiner..... PRESIDENT FORDIST.

TIME: THREE HOURS.

ENGLISH HISTORY.

1. What changes did the Saxon Conquest introduce into Britain?
2. Give a brief account of the war between England and Scotland in the reign of Stephen.
3. What claim had Henry II to the throne of England? What abuses did he seek to reform on his accession?
4. Write a short article on the "Constitutions of Clarendon."
5. Give the leading events of the reign of James II.
6. What were the chief provisions of the Bill of Rights?
7. What powers were arrayed against England during the later years of the American Revolutionary War? By what treaty was peace restored? What were its provisions?
8. When and for what reason were the crowns of England and Hanover separated?
9. "In 1858 the Palmerston Government introduced a Conspiracy Bill." What led to it? What was its aim? What were the results?

CANADIAN HISTORY.

1. After Columbus discovered America, Henry VII. of England and Francis I. of France, fitted out expeditions. Who commanded them? Give a brief account of their voyages.
The Indians of Canada and the neighboring territory belonged to three principal divisions or nations? Give a brief account, showing the territory they occupied.
2. When was Quebec first taken by the English? By what treaty was it restored? When did it finally become a British possession?
3. Write a short account of the company of One Hundred Associates.
4. Write a short article on United Empire Loyalists.
5. Write a short article on the Rebellion of 1837, tracing the causes which led to it.
6. When and on what terms did the Dominion obtain possession of the North West Territories.

GEOGRAPHY.

1. In what zones are the following countries: Scotland, Denmark, New Zealand, Madagascar, Japan, Peru, California, Bermuda, Amro, Egypt.
2. Give the coast waters of Europe; principal rivers of South America and lakes of North America.
3. Bound the German Empire, Egypt, Persia, Albert Co., N. B. Queen Co., N. S., Georgia.
4. What are the chief exports of Nova Scotia, Prince Edward Island, Egypt, Jamaica, Peru, Ceylon.
5. Locate Yokohama, Shanghai, Cebu, Antwerp, pisa, Delhi, Delagoa Bay; Madras, Trebizond, Moscow.
6. What is the population of Germany, France, Belgium, Holland, Denmark, Japan, Manitoba, P. E. Island, Quebec, British Columbia?

MATHEMATICS.

Examiner..... C. MACDONALD, M. A.

(For Matriculation.)

GEOMETRY AND ALGEBRA.

TIME: THREE HOURS.

N. B.—Three of the first four questions. The sixth supersedes the fifth.

1. If one side of a triangle be greater than another, the angle opposite the former shall be greater than that opposite the latter.
2. If a straight line falling on two others, make the alternate angles equal, these two lines shall be parallel.
3. If the extremities of two equal and parallel lines be joined by lines drawn towards the same parts, these lines shall be equal and parallel; but if they are joined towards opposite parts, the joining lines shall bisect each other.
4. Construct a parallelogram equal to a given triangle, and having one of its angles equal to a given angle.
5. If a straight line be divided into two parts, the rectangle of the two parts, together with the square of one of them, is equal to the rectangle of the whole line and the part whose square is just taken.
6. In any triangle the square of the side opposite an acute angle is less than the sum of the squares of the sides containing it by twice a certain rectangle. Give the full enunciation of the proposition, and prove it for one case, the triangle not being right-angled.
7. Express $1\frac{1}{2}$ ft. as the vulgar, and, also, as the Decimal fraction of a mile.
8. Multiply 1.035 by .00005; also, divide the latter by the former, giving the Quotient correct as far as four places from the first digit.

9. Simplify the expression,

$$x - \sqrt{2x - (x - 3)(2x + 4)} - 3(2x + y)^{\frac{1}{2}}$$

and, if $x = 8$, $y = 6$, $z = 4$: find the numerical value of

$$\frac{(\sqrt{x^2 + y^2 + z}) (\sqrt{x^2 + y^2 - z})}{(2y - z) \sqrt{(y + z)x}}$$

10. Solve the equation,

$$5x - \frac{2x-1}{3} + 1 = 3x + \frac{x+2}{2} + 7.$$

Also, solve the simultaneous equations,

$$5x = 146 - 11y,$$

$$2y = 110 - 11x.$$

11. Express, in briefest form,

$$3\sqrt{8} + 7\sqrt{288} - 9\sqrt{18} + 4\sqrt{\frac{81}{2}}$$

And multiply

$$2\sqrt{5} + 3\sqrt{3} \text{ by } 4\sqrt{3} - 3\sqrt{5}.$$

12. By inspection,
- $x^3 - 27y^3$
- is divisible by
- $x - 3y$
- . Write the quotient. Also, decompose
- $x - y$
- into factors, as far as you can. (Irrational factors are not to be considered).

(For Junior Munro Exhibitions and Bursaries.)

GEOMETRY.

TIME: THREE HOURS.

- Write the axioms you employ with respect to parallel lines: and prove that, if a straight line fall on two parallels, three main properties of angles follow.
- Parallelograms on equal bases and between the same parallels are equal in area: prove this.
- If a straight line be divided into two parts, the squares of the whole line and one of the parts are together equal," &c.: complete the enunciation, and prove the proposition.
- If an isosceles triangle have its vertical angle equal to $\frac{1}{2}$ of a right angle, prove that its Base is equal to $(2 + \sqrt{2})$ times one of the equal sides.
- How would you show that a circle cannot cut a straight line in more points than two?
- On a straight line describe a segment of a circle containing an angle equal to a given angle. (One figure.)
- From a given point, P, straight lines, PB, PC, PD, &c., are drawn to meet a given line, X, in B, C, D, &c.: and on these lines as diameters circles are described. Show that, besides P, the circles have another point in common.
- If two tangents be drawn to a circle and, also, the chord of contact, show that the middle point of the included arc is equidistant from the three sides of the triangle thus formed.

9. Two equal circles intersect in the points, P and Q, and any line drawn through P cuts their circumferences in M and N. Show that the circle described on PQ as diameter bisects MN.

10. Deduce the 47th Proposition of Euclid's Book I, from the property of the circle that, "if from any point a tangent and a secant be drawn to a circle, the rectangle contained by the secant and its external segment is equal to the square of the tangent."

ARITHMETIC AND ALGEBRA.

TIME: THREE HOURS.

1. Show that the Discount of Commerce is greater than the true Discount, Mathematically considered; and find the difference between the two in the case of \$100,000 worth of Bills, due 6 months hence, discounted at the rate of 6 per cent.

2. If the fraction, $\frac{m}{n}$, in lowest terms, be reduced to a decimal, and be also interminate, show that the length of the period is the same, whatever n may be.

3. Find, by factoring, the G. C. M. of $2x^3 - 3x^2y + xy^2 - y^3$, and $4x^2y - 5xy^2 + y^3$; and, by the method of continuous division or subtraction, the G. C. M. of $12x^2 + 13x + 1$, and $16x^2 + 16x + 1$.

4. Multiply

$$a^{\frac{1}{2}} + a^{\frac{1}{2}} b^{\frac{1}{2}} + b^{\frac{1}{2}} \text{ by } a^{\frac{1}{2}} - a^{\frac{1}{2}} b^{\frac{1}{2}} + b^{\frac{1}{2}},$$

and write the result, not with fractional exponents, but, in radical form. Also, find the value, in simplest surd form, of

$$\frac{3\sqrt{2}}{\sqrt{3} + \sqrt{6}} - \frac{4\sqrt{3}}{\sqrt{6} + \sqrt{2}} - \frac{2\sqrt{6}}{\sqrt{2} + \sqrt{3}}.$$

5. Find the square root of

$$a^4 - 4a^2 b^2 + 4b^4 + 4a^2 b^2 + 4a^2 b^2.$$

6. If $xy = \sqrt{a}$, $yz = \sqrt{b}$, $zx = \sqrt{c}$ and $(x + y + z) \sqrt{abc} = 1$, prove $(ab)^2 + (bc)^2 + (ca)^2 = 1$.

7. If $x^2 + px^2 + qx + r$ is measured exactly by $x^2 + ax + b$, find the two values of r in terms of the other coefficients, and prove that $a^2 - ap - b + q = 0$.

8. If $ax + by + cz = 0$
 $a_1 x + b_1 y + c_1 z = 0$
 $a_2 x + b_2 y + c_2 z = 0$

show that definite values for x , y , and z , cannot be found; and formulate in words the result of your investigation.

9. The difference between a number and its reciprocal is p ; and the difference between their squares is q . Prove (Quadratic equations not being admitted) that

$$4p^2 = (q^2 + p^2)(q^2 - p^2).$$

10. Solve the equation

$$\sqrt{x+a} + \sqrt{x-a} = \frac{b}{\sqrt{x+a}}$$

SENIOR MUNRO EXHIBITIONS AND BURSARIES.

A.—CLASSICS.

LATIN.

Examiner..... JAMES JOHNSON, M. A.

HORACE: EPODES. PLINY: SELECTED LETTERS.

THREE YEARS' WORK.

A. Translate :

Altera iam teritur bellis civilibus aetas,
 Satis et ipsa Roma virtibus ruit ;
 Quam neque finitimi valuerant perdere Marsi
 Minucia aut Etrusca Personae manus,
 Assula nec victus Capuae, nec Spartacus acer
 Novisque rebus infidelis Allobrox,
 Nec fera caerulea domuit Germania pulo
 Parenthisque abominata Hamilca ;
 Impia perennis de rovi sanguinis arbor,
 Ferisque rursus occupabitur solum ?
 Barbarus huius cineres insidet victor, et Urbem
 Equos sonante verberabit ungula,
 Quosque carent ventis et solitus ossa Quirini,
 Nefas videli - dissipabit incedas !
 Forte, quid expellat, commaniter aut melior pars
 Mellis curere quoscumque laetibus ;
 Nulla sit haec potior aeternitas : Phocaeorum
 Velut profugit exsecrata civitas.
 Agros atque Laeva patrios habitandaque fana
 Apris reliquit et rapacibus lapia,
 Ire, pedes quoscumque ferent, quoscumque per undas
 Natus vocabit aut protervus Africae.
 Sic placet ? an melius quis habet sandare ? — Secunda
 Estates occupare quid noveram alite ?

1. "Altera iam teritur bellis civilibus aetas." Explain *altera*.
2. (a) "Nec Spartacus acer
 Nec fera caerulea domuit Germania pulo."
 (b) "Phocaeorum
 Velut profugit exsecrata civitas."
 Write historical notes.
3. (a) "Ire pedes quoscumque ferent."
 (b) "An melius quis habet sandare."
 Explain the syntax of *ire*, and of the sentence, an
sandare, &c.
4. Some words in the extract (A) are used with an uncommon
 meaning.
5. (a) In what metre are the even lines of this Epode written ?
 In what is the metre peculiar ?
 (b) Scan these lines and name the metre of each :
 Ast ego vicissim ruro —
 Invicta, mortalis dea nate parv Thetide —
 Scribere versiculos amore percussam gravi.
6. The date of Horace's birth is fixed by a line in the Epodes.

II

B. Translate :

Sed haec felicitas terrae inbecillis cultoribus fatigatur. Nam
 possessor prior saepeis vestibus pigrescit, et dum reliqua colorum
 manit ad tempus, vicia in posterum exhaust, quarum defectio
 rursus reliqua creverunt. Sunt ergo instruendi eo pluria, quod frugi
 municipis nam nec ipse nequam victos habeo nec illi quiquam.
 Superest ut aetas quanti videatur posse cui : sestertio trices, non
 quo non aliquando quinquages fuerit, verum et hac paenaria
 colorum et communi temporis iniquitate ut reditas agros sic
 etiam pretium retro abili. Quare in hoc ipsum trices facile colligere
 possimus ? sunt quidem prope totus in traxerit, aliquid tamen ferens,
 nec molentiam erit mutari : accipiam a socra, cuius arca non secus ac
 mea utor. Pevinde haec non movet, si cetera non refragant, quae
 vicin quam diligentissime examines. Nam cum in omnibus rebus tam
 in disponendis facultatibus plurimum titi et usus et providentiae
 speret. Vale.

1. "Sunt ergo instruendi eo pluria, quod frugi municipis."
 Explain the meaning and syntax.
2. "Sestertio trices." Give the origin of this phrase and the
 value approximately in our currency.
3. Give the derivation and meaning of the following words :
praevocatio, *lacinia*, *topiarius*, *curipus*, *clepsydra*, *pugillares*,
Laediceus, *circulator*.
4. Write explanatory notes on each sentence :
 (a) In media basilica tam palmi operculae quam in triclinio
 datur.
 (b) Assen para et accipe aream fabulam.
 (c) Habes alimacorum tempus, sed evades.
 (d) Quid si (te) haeredem instituisset ex aere.
5. Translate the following sentences and explain the syntax where
 necessary :
 (a) Certamen ergo tibi gratis agimus, ego quod illam mihi,
 illa quod me illi doleris.
 (b) Praesentis cum me necessitas locandorum praediorum
 plura annos ordinata detinet.
6. Pliny gives a list of his uncle's writings.

C. Translate into Latin : While the Greeks were preparing food
 Mithridates came up to them with about thirty horsemen, and calling
 for the generals, addressed them to the following effect : That he had
 always been loyal to Cyrus, as they knew well themselves, and now
 wished well to them ; that he also was living there in the greatest
 fear. If then he saw that they were planning for their own safety,
 he would come to them and would bring with him all his men. Let
 them inform him therefore what they had in mind, because he was a
 friend to them and wished to march forward with them. After think-
 ing over the proposal, the generals decided to answer as follows :
 that they were going to set out for home, and if any allowed them to
 advance, they would in no way harm them, but if any attacked them,
 they would cut their way through with the sword.

GREEK.

Examiner..... JOHN JOHNSON, M. A.

HERODOTUS; BOOK II.

Time: Three Hours.

I.

A. Translate.

Τὸν δὲ ἄλλω βασιλεὺς οὐ γὰρ ἔλεγεσθαι οὐδένα ἴστω ἐπέλεξε, καὶ οὐδέτις αὖτις λατρίεσσιν, πλὴν τοῦ τῶν ἰσθμῶν αἰετῶν Μαιῶνα· τούτων δὲ ἀποδείξασθαι μαρτύριον οὐκ ἠράϊνον τὸ πρῶτον βιβλίον ἔκρινεν ἑταίροισιν κριταῖσιν. λίαν γὰρ ἐβόηον τῆς ἢ περιπέσει ἴστω ἐστὶ σταδίου ἵστῶνος ἄρῳατος· παραμυθίας τε ἐν ἀσπὶ ἀναβύβασιν τῶν τοῦ μεγάλου ἀέρος ἀπὸ ἀσπὸς τῆς λίαν ἵστῶνος. τούτων μὲν ποσῶντα ἀποδείξασθαι, τῶν δὲ ἄλλων αἰετῶν οὐδέτις.

Παραμυθίαις δὲ τούτων, τοῖς τοῖς τούτων γενόμενος βασιλεὺς, τὸ ἀέριον ἐν Σιαντρῶν, τούτων μάρτυρα ποιήσας. τὸν ἔλεγε δὲ ἴσθῳ πρῶτον πλεῖστον ἀεραῖον ἀρῳατῆρα ἐν τῷ Ἀσπίδι αἰετῶν, τοῖς ἀπὸ τῆς Ἐρμῆος θύλασσιν ἀναβύβασιν ἀναστρέφοντα ἐν δὲ πλείωσιν αὖ πρῶτον ἀναβύβασιν ἐν ἄλλοις αἰετῶν πλείωσιν ἐπὶ ἀρῳατῶν ἰσθμῶν δὲ ἐν ἴσθμῳ αἰετῶν ἐν Ἀλγυρῶν, ἀπὸ τῶν ἴσθμῶν τῶν φίλων, ἀρῳατῆρα πολλοὺς λαβὼν ἔλασεν ἀπὸ τῆς φέρονται, τοῖς ἴσθμῳ τὸ ἴσθμῳ ἀναστρέφοντα.

1. Τὸν δὲ ἄλλω βασιλεὺς οὐ γὰρ ἔλεγεσθαι οὐδένα κ. τ. λ. What would be the regular construction of this clause?

2. (a) καὶ οὐδέτις αὖτις λατρίεσσιν. (b) τῆς ἢ περιπέσει ἴστω ἐστὶ σταδίου ἵστῶνος ἄρῳατος. Explain the syntax.

3. ἐν τῷ Ἀσπίδι αἰετῶν, τοῖς ἀπὸ τῆς Ἐρμῆος θύλασσιν. Write a geographical note.

4. ἐν δὲ πλείωσιν αὖ πρῶτον ἀναβύβασιν. Account for the use of the infinitive.

B. Translate:

Καὶ ἐξ ἧς μαρτυροῦσα ἰσθμῶν ἐπέλεξε κατὰ ἄλλω δὲ οὐκ ἔπαυσαντο λαθρήσαντο ἄλλωσιν ἐπὶ τῆς λίαν τῆς Μαιῶνα ἀπὸ Κρινασπίδου ἀναστρέφοντα πλείωσιν ἀρῳατῶν· τῶν ἐπὶ τῆς ἴσθμῳ ἴσθμῳ πλείωσιν τὸ γὰρ τῆς τῆς ἐξ Ἐρμῆος τῶν τῆς ἐν καὶ ἴσθμῳ ἀναβύβασιν ἀναστρέφοντα, Πλάσσαντα τῶν ἐν τῷ καὶ ἀρῳατῶν ποσῶν ἴσθμῳ τῶν λαθρήσαντο τούτων· (καὶ τῶν ἀρῳατῶν γὰρ καὶ ὁ ἐν Ἐρμῆος ἐστὶ τῶν, καὶ ὁ ἐν Σίαντρῶν) ἴσθμῳ μὲν οὐ καὶ αὐτῶν ἀρῳατῶν ἵστῶνος, καὶ τούτων ἵστῶνος αἰετῶν Ἐρμῆος ἀρῳατῶν ἴσθμῳ καὶ μεγάλου ἀναβύβασιν ὁ δὲ δὲ λαθρήσαντο καὶ τῆς παραμυθίας ἐταίροισιν. τῶν γὰρ ἀρῳατῶν μὲν αὖτις ἀναβύβασιν ἀρῳατῶν ἀλλήλοισιν, ἐξ μὲν πρῶτον βασιλεὺς ἐξ δὲ πρῶτον ἑταίροισιν ἀρῳατῶν· τῶν γὰρ δὲ ἴσθμῳ δὲ αἰετῶν οὐκ ἀρῳατῶν, ἀρῳατῶν δὲ ἴσθμῳ ἀρῳατῶν τὸ μὲν ἵστῶνος τὸ δὲ μὲν ἀρῳατῶν ἐπὶ ἵστῶνος, τῶν γὰρ ἀρῳατῶν.

πιστεύουσα καὶ γὰρ ἵσθμῳ. τὸ μὲν οὐκ ἀρῳατῶν τῶν ἀρῳατῶν αἰετῶν τῶν ἴσθμῳ ἀρῳατῶν καὶ αἰετῶν ἀρῳατῶν ἵστῶνος· τὸ δὲ αἰετῶν ἵστῶνος ἵστῶνος ἀρῳατῶν.

1. ἄλλω δὲ οὐκ ἔπαυσαντο λαθρήσαντο. Explain the syntax of ἄλλωσιν. What is the derivation of λαθρήσαντο?
2. ποσῶν ἵσθμῳ. Distinguish from ποσῶν ἵσθμῳ.
3. ἴσθμῳ μὲν οὐ καὶ ἀρῳατῶν ἵστῶνος μείζωνος. Why is the imperfect used?
4. ἐξ μὲν πρῶτον βασιλεὺς, ἐξ δὲ πρῶτον ἑταίροισιν. Account for the different cases used with πρῶτον in this clause. Decline βασιλεὺς.

II.

1. What forms are found in Herodotus for: ἴσθμῳ, τῶν, αὐτῶν, ἐξ, αἰετῶν, πλείω, ἐν, αἰετῶν, ποσῶν.
2. Parse fully: ἀρῳατῶν, ἐρμῆος, ἀρῳατῶν, ἴσθμῳ, αἰετῶν.
3. Why does H. deny that a certain poem was written by Homer?
4. What places does H. state in the Second Book that he visited?
5. ΜΗ ΜΕ ΚΑΤΑΝΟΣΩΘΗΣ ΗΡΟΣ ΤΑΣ ΑΙΘΙΝΑΣ ΠΥΡΑΜΙΔΑΣ. ΗΠΟΚΡΕΤ ΓΑΡ ΑΥΤΗΝ ΤΟΣΟΥΤΩΝ. ΟΣΩΝ Ο ΨΕΥΤΗ ΤΗΝ ΑΛΑΣΤΗ ΟΣΙΝ. ΚΟΝΤΑ ΓΑΡ ΠΥΡΟΠΥΡΗΝΤΕΣ ΕΣ ΑΙΜΗΝ Η ΟΤΙ ΗΡΟΣ ΧΟΙΤΟ ΤΟΥ ΗΡΑΟΥ ΤΗΣ ΚΟΝΤΗΣ ΤΟΥΤΟ ΣΥΛΛΑΒΟΝΤΕΣ, ΗΛΙΝΘΟΥΣ ΚΕΡΤΣΑΝ, ΚΑΙ ΜΕ ΤΡΟΜΗΣ ΤΟΥΤΗΣ ΕΚΗΡΟΘΗΣΑΝ. Accentuate this passage in small letters; translate it and parse ΗΠΟΚΡΕΤΩ.
6. κατανοῦσθε δὲ, τὰς δὲ ἵστῶνας, τῶν ἀρῳατῶν ἐν τῶν μείζων ἢ αἰετῶν τῶν ἵσθμῳ ἢ Ἀρῳατῶν τῶν ποσῶν ἀρῳατῶν ἀρῳατῶν, ἐξ ἀρῳατῶν τούτων τῶν ἀρῳατῶν. Translate and change the form from αὐτῶν, αἰετῶν to αὐτῶν, αἰετῶν.

C. Translate into Greek. While Timon was living in India, he perceived that some of his servants were stealing his property but did not know which to accuse, as all denied having done it. Accordingly he devised the following plan to find them out. He shut up all the servants in prison, each apart from the others, and gave them sticks (αἰετῶν) and told them to keep them carefully, for the thief's stick would grow an inch longer in the night. And when they heard this the most rejoiced and lay down to sleep, but the thief could not sleep all night and so day-break, bewildered and fearing lest his stick had become longer, he broke off an inch of the wood. So that when the sticks were measured as his was the shortest, he was convicted easily.

B.—MATHEMATICS

Examiner. C. MACDONALD, M. A.

GEOMETRY AND TRIGONOMETRY.

TIME: THREE HOURS.

1. If a quadrilateral be inscribed in a circle, the rectangle of the diagonals is equal to the sum of the rectangles of the opposite sides.

2. Q is the centroid of a triangle, ABC, vertex A. CQ and BQ meet the line through A parallel to the base in P and R. Prove

$$\text{area of triangle PQR} = \frac{1}{3} \text{ area of ABC.}$$

3. What are the "centres of similitude" of two circles? What do you consider their leading property? Also, if there are three circles, state and prove, for one case, any remarkable relation of these "centres."

4. Define pole and polar with reference to a circle; and prove that a line through the pole meeting the circle and the polar is divided harmonically.

5. The parabola might be defined as the curve in which the square of the ordinate is proportional to the abscissa. Show this, and give an analogous definition for the ellipse or the hyperbola, justifying what you say.

6. Prove any two of the following theorems:—(by any method)

(1) The tangents to a parabola, drawn from any point, subtend equal angles at the focus.

(2) The tangent to an ellipse at any point makes equal angles with the focal distances of the point.

(3) S and H are the foci, and P any point, in an ellipse. Show that the radius of the circle inscribed in the triangle SPH bears a constant ratio to the altitude of the triangle.

7. The three angles of a spherical triangle are together greater than two right angles and less than six.

8. Prove the formula, in spherics,

$$\cos a = \frac{\cos A + \cos B \cos C}{\sin B \sin C}.$$

9. If the angle θ be less than four right angles, and

$$\sec \frac{\theta}{2} = \frac{(m+n)\sqrt{2}}{m-n},$$

m and n being of the same sign, show that θ is greater than one, but less than three right angles.

10. Solve any two of the following:— In prove

$$(1) \frac{\sin A + \sin C}{\cos A + \cos C} = \frac{\cos C - \cos A}{\sin A - \sin C}.$$

$$(2) a^2 \sin 2B + b^2 \sin 2A = 2ab \sin C.$$

$$(3) \text{If } \cot A, \cot B, \cot C, \text{ are in A. P. } a^2, b^2, c^2, \text{ are also in A. P.}$$

N. B.—Assume the usual notation for the parts of a plane triangle.

MISCELLANEOUS.

TIME: THREE HOURS.

1. Use the theorem,

$$(\cos x + \sqrt{-1} \sin x)^m = \cos mx + \sqrt{-1} \sin mx,$$

to find $\cos mx$ and $\sin mx$ in terms of $\sin x$ and $\cos x$, as being a positive integer. Write also the two middle terms of the series you start with, as being odd; and divide the second of these by the former.

2. Use the results of the last problem to find the expressions for $\sin x$ and $\cos x$ in ascending powers of x .

3. One of the series you have just found contains only even powers, and the other only odd powers, of x . Show, from your knowledge of previous Trigonometry, that this result could have been anticipated. Is the same thing true of either single Trigonometrical functions? Show also, in the case of either of the series you have found, that it is convergent.

4. Prove that e , the base of the Napierian Logarithms, is not expressible by any finite number, A, e , that e is incommensurable.

5. Prove that the circular measure of $2^\circ 31'$ is slightly less than $\frac{1}{10}$; but, assuming it to be as much as $\frac{1}{10}$, show that the natural sine of the angle specified, found by taking only the first two terms of Euler's series for $\sin x$, is correct to at least six decimal places.

6. From the exponential expressions for $\sin x$ and $\cos x$, prove either

$$(1) \cos 2x - \sin 2x = \cos 2x;$$

$$\text{or (2) any one of the four fundamental formula for } \sin(A \pm B) \text{ and } \cos(A \pm B).$$

7. Let A be the area of the triangle contained by the lines joining the points where the inscribed circle of a triangle touches the sides; and let α, β, γ , be the length of these lines. Prove

$$(1) A = \frac{1}{2} r^2 (\sin A + \sin B + \sin C);$$

$$\text{and (2) } \frac{\alpha + \gamma}{\alpha \beta \gamma} = 2 \frac{R^2}{r^3}.$$

(The usual notation in this and the next problem.)

8. If the points where the several escribed circles touch the sides be treated as in the last problem, and A_1, A_2, A_3 , be the areas of the several triangles so formed; prove

$$\frac{A_1 + A_2 + A_3}{A} = \frac{r_1 + r_2 + r_3}{r}$$

9. How do you sum such a series as

$$a + (a+x)x + (a+2x)x^2 + (a+3x)x^3 + \&c.?$$

Illustrate by summing a term of

$$3 + \frac{3}{2}x + \frac{3}{4}x^2 + \frac{3}{8}x^3 + \&c.$$

10. There are m persons, A, B, C, &c., and n persons, Z, Y, X, &c. ($m < n$), all of equal trustworthiness as to their statements. Show that if Z, Y, X, &c., agree in denying a statement that A, B, C, &c., agree in affirming, the mathematical value of their conflicting testimony is the same as if $m-n$ of them had affirmed, the others giving no testimony in the matter.

C.—ENGLISH.

Examiner ARCHIBALD MACMECHAN, Ph. D.

LOUNSBURY'S HISTORY OF THE ENGLISH LANGUAGE, Pt. I; SPENSER'S
FAERIE QUEEN, BK. I; SHAKESPEARE'S KING JOHN;
AS YOU LIKE IT; BYRON'S CHILDE HAROLD.

TIME: THREE HOURS.

N. B.—Not more than two questions to be answered in each division.

A.

1. Describe fully the position of English in the Indo-European group of languages.

2. How did the term "King's English" arise?

3. What Romance languages have influenced English? At what periods? In what manner?

B.

4. Spenser has been called the "poet's poet." Can you justify this description from the "Faerie Queen?"

5. Give some account of the adventures of Una in Bk. I. of the "Faerie Queen."

6. Write explanatory notes on ten of the italicized words in the following extracts:

(a) He, making speedy way through *spurred* air.

(b) And with false shewes *obscure* his fantasy.

(c) *Eye*-sences he perceid through his *changel'd* chest.

(d) Full of vain follies and new *fingleness*.

(e) Through unadvised rashness waxes wood.

(f) And yet more sad, that Una, his dear *dear*
Her truth had stayd—

(g) —His mightie shield

Upon his manly arm he *scored* *advised*.

(h) His rancorous armes, whose mighty beawred bores

Were wont to rive steel plates.

(i) Which he had got abroad by *perchance* criminall.

(j) Then brought she me into this desart waste,
And by my wretched lovers side me plight.

C.

7. Sketch the characters of *Hubert*, *Arthur* and *Constance*.

8. What part does *Jacquess* play in *As You Like It*? Contrast him in his character as a wit with *Ferdinand*.

9. Quote two passages, one from *King John* and one from *As You Like It*, each not less than ten lines in length.

D.

10. "Lord Byron never wrote without some reference, direct or indirect, to himself." Justify or disprove this statement from "Childe Harold."

11. Do you consider a knowledge of Byron's life necessary in order to understand his poetry? Give reasons for your answer.

12. Quote any passage in "Childe Harold" of about 30 lines in length.