ANNUAL CALENDAR

OF

MANITOBA COLLEGE,

WINNIPEG.

SESSION 1880-1881.

TORONTO:
PRINTED AT THE PRESBYTERIAN PRINTING HOUSE.
1880.

KNOX CHURCH,

COR. PORTAGE AVENUE AND FORT STREETS,

WINNIPEG.

REV. J. ROBERTSON, PASTOR.

RESIDENCE, COR. MARKET AND LOUISA STREETS.

SABBATH SERVICES.

Morning, 11 o'clock.

Afternoon, 3 o'clock - - - YOUNG PEOPLE'S BIBLE CLASS AND
SABBATH SCHOOL.

Evening, 7 o'clock.

Monday Evening,	YOUNG MEN'S CLASS.
Wednesday Evening,	PRAYER MEETING.
Thursday Evening,	YOUNG MEN'S SOCIETY.

SEATS ALLOCATED TO THE COLLEGE FOR STUDENTS.

KILDONAN CHURCH,

REV. J. BLACK, D.D., PASTOR.

SABBATH SERVICES.

Morning, 10 o'clock.

BIBLE-CLASS AND SABBATH SCHOOL AT 11.30.

Afternoon, 3 o'clock.

Thursday Evening, - - - - - - PRAYER MEETING.
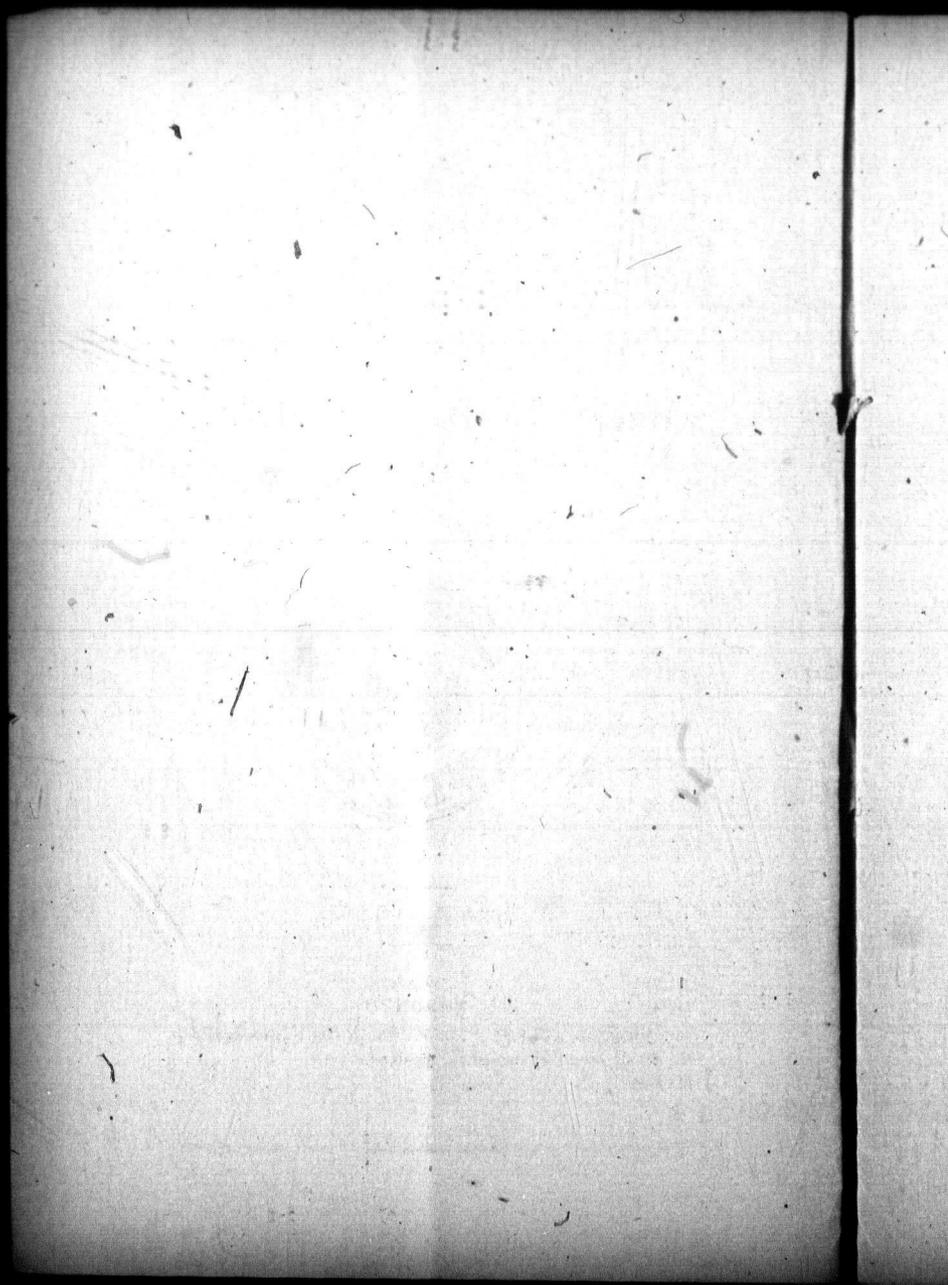
STUDENTS WELCOME.

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ACADEMICAL YEAR, 1880-81.

SEPTEMBER, 1880.

1	Wed.	
5	S	
7	Tues.	OPENING OF COLLEGE.
10	Fri.	
13	Mon.	Examination for Entrance Bursaries.
15	Wed.	
20	Mon.	
25	Sat.	
30	Thur.	

DECEMBER, 1880.

1	Wed.	
5	S	Collection ordered by G. Assem. throughout whole Church.
8	Wed.	Annual College Meeting
10	Fri.	
15	Wed.	
20	Mon.	
22	Wed.	College Examinations.
24	Fri.	Vacation commences.
31	Fri.	

OCTOBER, 1880.

1	Fri.	
5	Tues.	
10	S	
15	Fri.	
20	Wed.	
25	Mon.	
31	S	

JANUARY, 1881.

1	Sat.	
5	Wed.	
10	Mon.	Classes resume, after Vacation.
11	Tues.	
15	Sat.	
20	Thur.	
25	Tues.	
30	S	
31	Mon.	

NOVEMBER, 1880.

1	Mon.	
5	Fri.	
10	Wed.	
15	Mon.	
20	Sat.	
25	Thur.	
26	Fri.	1st College Term ends.
30	Tues.	

FEBRUARY, 1881.

1	Tues.	
5	Sat.	
10	Thur.	
15	Tues.	
20	S	
25	Fri.	2nd College Term ends.
28	Mon.	

ACADEMICAL YEAR, 1880-81.

MARCH, 1881.		
1	Tues.	
5	Sat.	
10	Thur.	
15	Tues.	
20	S	
23	Wed.	College Examinations.
25	Fri.	Vacation commences.
31	Thur.	

MAY, 1881.		
1	S	
5	Thur.	
10	Tues.	
15	S	
20	Fri.	
25	Wed.	
28	Fri.	3rd College Term ends.
30	Mon.	University Ex. begins; and also College Ex.
31	Tues.	

APRIL, 1881.		
1	Fri.	
4	Mon.	Classes resume after Vacation.
10	S	
15	Fri.	
20	Wed.	
25	Mon.	
30	Sat.	

Last year the Free Church of Scotland gave a donation of £150 sterling to the College.

Presbyterian Church of Ireland £100.

Applications have been made to the Church of Scotland and United Presbyterian Church, with expectation of grant.

MANITOBA COLLEGE,

WINNIPEG.

Board of Management.

A. G. B. BANNATYNE, *Chairman.*

Prof. Bryce, Prof. Hart, Dr. Black, Rev. Messrs. Allan Bell, James Robertson, Alexander Campbell, John Scott, Messrs. G. McMicken, D. McArthur, D. U. Campbell, P. R. Young, William Fraser, John Sutherland, A. W. Ross.

Senate.

REV. PROF. BRYCE, *Chairman.*

Prof. Hart, Dr. Black, James Robertson, Alex. Campbell.

Assembly's Committee.

REV. D. H. FLETCHER, *Convener.*

Dr. Reid, Dr. Grant, Dr. Moore, Rev. Messrs. D. J. Macdonnell, M. W. McLean, G. Bruce, E. F. Torrance; Hon. Alex. Morris, Hon. J. McMurrich, Messrs. Donald McLellan and James Croil.

Staff of Instructors.

REV. GEORGE BRYCE, M.A., LL.B., Professor of Science and Literature.

REV. THOMAS HART, M.A., B.D., Professor of Classics and French.

REV. J. BLACK, D.D.,
REV. JAMES ROBERTSON, } Lecturers in Theological Subjects.

MR. A. M. CAMPBELL, Resident Tutor.

Courses of Study.

The objects of the College are:—

(1) To give such a higher education as the requirements of the country demand.

(2) To train such students for the Holy Ministry as are placed by the General Assembly under the supervision of the Presbytery of Manitoba.

University Course.

Manitoba College, along with the Episcopal and Roman Catholic Colleges in Manitoba, is affiliated to the University of Manitoba, which was established in 1878.

The following are the privileges enjoyed by the College by virtue of its affiliation :—

(1) To elect seven representatives on the University Council of twenty-seven members.

(2) To nominate two of the eight members of the Board of Studies of the University.

(3) To have the entire management of its internal affairs, studies, worship and religious teaching.

(4) To grant, with the sanction of the General Assembly, the degrees of Bachelor of Divinity and Doctor of Divinity, which degrees shall entitle the holders to all rights and privileges, as if granted by the University.

University Examinations.

Manitoba College was the foremost of the three affiliated Colleges to take advantage of the University Examinations, first held in May, 1879.

University Curriculum.

The University has four Examinations in its full Course:

(1) THE PRELIMINARY.
(2) THE PREVIOUS.
(3) JUNIOR YEAR FOR B.A.
(4) SENIOR YEAR FOR B.A.

The subjects for examination in the *Preliminary* are:

LATIN........Cæsar (Bellum Brittanicum), Bks. IV., c. 20, & V.
" ....Virgil, Æneid, Bk. I.
GREEK ......Xenophon's Anabasis, Bk. I.
ENGLISH......Milton's Paradise Lost, Bk. I.
FRENCH ......Télémaque, Bk. I.
HISTORY .....Roman, to 31 B.C.; British History.
" .....Canadian History.
EUCLID. ......Bk. I.
ALGEBRA.....To end of Simple Equations.
ARITHMETIC ..To end of Cube Root.

In this Examination there are eight papers of three hours each.

The subjects for the *Previous Examination* are :

LATIN ....Sallust, Catiline.
"   ....Cicero, Pro Archia Poeta.
"   ....Ovid, Fasti, Bk. I.
GREEK ....Homer's Iliad, Bk. I.
"   ....Demosthenes, I. Phillipic.
ENGLISH .....Shakespeare, Macbeth.
FRENCH ......Bossuet's Oration on Queen Henrietta.
HISTORY .....Green's History, to end of Ch. 7.
LITERATURE ..English.
BOTANY ......Gray's.
EUCLID.......Books I.-IV.
ALGEBRA .....To end of Surds.
ARITHMETIC.

In this Examination there are thirteen papers of three hours each.

After passing the *Previous* Examination, two years must elapse before the Final Examination for B.A. can be passed. Two methods of gaining the B.A. degree are then permitted :

(1) ORDINARY B.A. COURSE.
(2) B.A. IN HONOURS.

The subjects for the Ordinary B.A. Examination are :

LATIN ....Tacitus' Annals, Bk. I.
"   ....Horace—Ars Poetica, and Annals, Bk. I.
GREEK ....Æschylus' Prometheus Vinctus.
MATHEMATICS ....Algebra.
"   ....Euclid : Definitions Bk. V.; Bk. VI.;
                        Bk. XI., 1-12 ; Bk. XII., 1, 2.
PLANE TRIGONOMETRY, as far as Solution of Plane Triangles.
ELEMENTARY STATICS.

ELEMENTARY HYDROSTATICS.
INORGANIC CHEMISTRY.
ZOOLOGY.
LOGIC (Whately).
METAPHYSICS (Reid's Essays).
MORAL PHILOSOPHY (Calderwood).
POLITICAL ECONOMY (Roger).

In this Examination there are eleven papers of three hours each.

The Honour B. A. degree may be obtained in any one of the five departments :

CLASSICS.
MATHEMATICS.
NATURAL SCIENCES.
MENTAL AND MORAL SCIENCE.
MODERN LANGUAGES.

As the only course yet pursued by a student of the College, the Natural Science Honour Course only is given. (The other courses can be obtained from the Registrar of the University of Manitoba.)

Junior Year, for B. A. in Natural Sciences :

INORGANIC CHEMISTRY (Roscoe).
COMPARATIVE PHYSIOLOGY (Agassiz and Gould).
STRUCTURAL BOTANY (Gray).
MINERALOGY (Dana).
CHEMICAL PHYSICS (Miller).

Senior Year, for B. A. in Natural Sciences :

ORGANIC CHEMISTRY (Fownes).   PALÆONTOLOGY (Nicholson).
GEOLOGY (Lyell.)   HISTOLOGY (Carpenter).
ZOOLOGY (Nicholson).   PHYSICAL GEOGRAPHY (Page).
APPLIED CHEMISTRY.   COMPARATIVE ANATOMY (Rolleston).
SYSTEMATIC BOTANY (Gray).   ASTRONOMY (Lockyer).
CRYSTALLOGRAPHY.   METEOROLOGY (Loomis).

A Candidate in any Honour Course must also pass in :

STATICS AND HYDROSTATICS.
TRIGONOMETRY.
LOGIC (Whately).
MORAL PHILOSOPHY (Calderwood).
INORGANIC CHEMISTRY (Roscoe).

In this two years Honour Course for B.A. the Candidate has seventeen papers of three hours each in Sciences ; and five papers of three hours each in the Pass subjects.

Statistics of University Examinations.

The following is the number of students who have passed the University Examinations during the short course of the University, with their Colleges :

1878.	Manitoba College.	St. John's Episcopal College.	St Boniface. R. C. College.
Preliminary Examination ...	5	0	0
Previous Examination	1	0	0
Total................	6	0	0

1879.			
Preliminary Examination ...	3	0	0
Previous Examination	2	7	2
Junior B.A. Year	1	0	0
Total...............	6	7	2

1880.			
Preliminary Examination ...	7	0	0
Previous Examination	6	4	2
Junior B.A. Year	1	2	1
Senior B.A. Year	1	0	0
Total...............	15	6	3

Students who have passed the Examinations of the University of Manitoba will be given an equivalent standing by the University of Toronto; Queen's College, Kingston; McGill College, Montreal; and Victoria College, Cobourg.

Preparatory Course.

As up to the present time no facilities exist in Manitoba or the North-West for obtaining the necessary preparation for the University or for business, Manitoba College is compelled to open such preparatory classes as are required, under the Professors and Resident Tutor, so that parents in remote parts of the Territory, or in neglected parts of the Province, may depend upon the best care being given to their sons, and upon their being fitted for usefulness in life. This course not only fits for entrance on the University Course, but also for entrance on Agriculture and Civil Engineering in Eastern Colleges, and for the Military College at Kingston. Commercial subjects, such as Penmanship, Business Correspondence, and Book-keeping, receive attention in this course.

A large number of those who have taken this course have taken certificates as Public School Teachers, and are now engaged in teaching throughout the Province.

Instruction in Theology.

The General Assembly has from time to time put students for Theology under the care of the Presbytery of Manitoba,

who have received instruction in Manitoba College. In the
short history of the College three such young men have finished
their course, and are now engaged as efficient ministers in the
mission field. Other students are now upon their way. The
session of the College being nine months in length, the General
Assembly of 1874 permitted the course to be made one of four
years, and appointed the following as the curriculum, which is
followed as closely as can be accomplished. -

I.	II.	III.	IV.
Latin, Greek, Paley's Evidences. Reid's Essays. Old Testament Church History. Study of Gospels.	Hebrew. Greek Exegesis. Butler's Analogy. Whately's Logic. Church History, Centuries I.-IV. Homiletics.	Hebrew Exegesis. Greek Exegesis. Systematic Theology. Biblical Criticism. Church History, Cent. VI.-XVI.	Hebrew Exegesis. Greek Exegesis. Systematic Theology. Pastoral Theology.

Medals, Bursaries and Prizes.

An examination will be held on the thirteenth of September
for students entering the first regular college form, for three
bursaries of $15, $10 and $7.50.

Subjects of examination may be obtained from Rev. Prof.
Hart, Winnipeg.

A bursary of the value of $20, established by Adam Thom,
Esq., an old resident of Red River, will be awarded as the
result of the Regular Terminal Examinations.

$40 has also been placed at the disposal of the Senate for a
deserving student, by a friend of the College in Montreal.

Prizes in books are also awarded to successful students at the
College Examinations.

The *Governor-General's* Medal will be presented to the best student of the College, who passes successfully the December and March examinations of the College, and obtains the highest number of marks at the Preliminary Examination of the University of Manitoba.

Students of Manitoba College, going up to the University Previous Examination, or University Final Honour Examination, are eligible for the Silver and Bronze medals presented by His Excellency the Governor-General to the University of Manitoba.

College Library.

The library has been largely increased during the past year by donations from friends of the College in Great Britain and Canada, and now numbers about 3,000 volumes. It comprises works in Theology, History, Science, general literature, and has a good collection of Classical authors, Commentaries and Dictionaries.

The Library will be at the disposal of the students, under suitable regulations.

Terms of Study.

FALL TERM............September, October, November.
WINTER TERM.........December, January, February.
SPRING TERM.........March, April, May.

Holidays.

CHRISTMAS HOLIDAYS..............Two Weeks.
EASTER VACATION............ .....One Week.
SUMMER VACATION ....June, July, August.
ALL NATIONAL HOLIDAYS.

Fees.

REGULAR COURSE............$7.50 per Term, in advance.
PREPARATORY COURSE .... 5.00   "   "

Board.

The College building is a wooden edifice, but built in the warmest manner in vogue in the country.   A careful matron superintends the Boarding Department.

BOARD.................................per Week, $3.50.
FIVE-DAY BOARDERS............... .... 3.00.
WASHING, at Current Rates.
FUEL RATE.

Residence Regulations.

Students are under the careful supervision of the Chairman of the Senate and are not allowed to leave the Residence at night without his special permission.   Study hours are from 9 to 12 A.M. ; 1.30 to 3 P.M. ; from 7 to 9.30 P.M. for Juniors ; from 7 to 11 P.M. for Seniors.   Morning worship is at 8.30 ; evening worship at 9.30.   Religious instruction of a non-sectarian kind is given to all students of the College, unless objected to by parents or guardians.   Resident students are expected to attend morning and evening Sabbath service, and

afternoon Bible-classes in Knox Church, Winnipeg, unless other arrangements are made by the parents or guardians of such students. Breakages of College furniture, or injury done to College books or property will be charged to students.

Costume.

University Students are required to provide themselves with College cap and gown, according to pattern adopted by the Senate, and are required to appear in their classes with proper costume.

Alumni of Manitoba College,

AND YEARS OF FINISHING.

Black, W.R.........(B.A., and Silver Medallist, Univ. of Toronto),..1874.
Sutherland, A. M...(B.A., Univ. of Toronto) ....1874.
Sutherland, W. R...(M.D., Toronto) ....1875.
Laurie, W...1875.
Laurie, R.C. ....(Military College, Kingston).................1875.
Ferguson, A. M ....(Trinity Medical School). ....1878.
Gunn, W. R. ......(1st B.A. of Univ. of Manitoba, and Governor-
General's Silver Medallist)...................1880.

Alumni in Theology,

AND PRESENT RESIDENCE.

Duncan James......(Ordained 1878)......1878.....Prince Albert, N.W.T.
Polson, Samuel.....(Ordained 1879)......1878.....Millbrook, M.
McGregor Dugald ..(Received by General
Assembly, 1880)....1880. ....Salisbury, N.W.T.

Undergraduates of University of Manitoba

FROM MANITOBA COLLEGE.

Atkinson, G. M. ....1880.... ......Dundas, O.
Anderson, D. ....1880 ....Kildonan, M.
Brown, F ....1880 ....Winnipeg, M.
Clark, O. ....1878 ....Winnipeg, M.
Code, J. B. ....1880...........Winnipeg, M.
Campbell, A. M................1880........ ..Argyle, M.
Ferguson, A.....................1878.... ......Greenwood, M.
Hardie, M. ....1880........ ...Ottawa, O.
McBeth, R. G. ....1880...........Kildonan, M.
McPhillips, L. ....1878...........St. Charles, M.
McPhillips, A...................1879.. .. ..St. Charles, M.
Munroe, G.....................1879...........Kildonan, M.
Mulvey, J. ....1880........ ..Winnipeg, M.
Newcomb, J. ....1880......... ..Winnipeg, M.
Ogletree, H. ....1880...........Portage la Prairie, M.
Omand, W. McK. ....1879.. ....St. James, M.
Polworth, J. B................1878...........Selkirk, M.
Sinclair, D. R...................1878...........Winnipeg, M.
Stewart, C. M. .... .1878......... ..Winnipeg, M.
Sutherland, R. R., ...1879...........Kildonan, M.

Entrants & Junior Students of Manitoba College

FOR SESSION 1879-80.

Agnew, J.	Scott, T. H.	Lyon, F.
Ferguson, N.	Scott, T. W.	Logan, A.
Hargrave, J. B.	Scott, W.	McLaren, A.
Huggard, J. T.	Stevenson, H.	McGregor, H.
Hursell, T.	Wood, R.	More, T.
Kennedy, J. C.	Bannatyne, R.	Nicol, C.
McLeod, G.	Craig, A.	Scott, James.
McVicar, D.	Freeman, J.	Strang, Robert.
McPhillips, X.	Kennedy, C.	Strang, Reginald.
Parker, G.	Lyon, H.	

UNIVERSITY OF MANITOBA

Examination Papers.

At the late University Examinations six papers were given in Preliminary Examination, twelve in Previous Examination, fifteen in Junior B.A. Year, and fourteen in Senior B.A. Year.

A few—as many as the space permits—are selected from these and given in the following pages :—

PRELIMINARY EXAMINATION, JUNE 1, 1880.

MODERN LANGUAGES—TELEMACHUS.

Examiners—Rev. F. Hughes, A. C. Killam, B.A., Rev. O. Fortin, B.A.—Time, 1½ hours.

1. Translate :—"Jétais parti d'Ithaque pour aller demander aux autres rois revenus du siége de Troie des nouvelles de mon père. Ni Nestor, que je vis à Pylos, ni Ménélas, qui me reçut avec amitié dans Lacédémone, ne purent m'apprendre si mon père était encore en vie. Lassé de vivre toujours en suspens et dans l'incertitude je me résolus d'aller dans la Sicile, où j'avais oui dire que mon pè avait été jeté par les vents. Mais le sage Mentor, que vous voyez ici présent, s'opposait à ce téméraire dessein : il me représentait d'un côté les Cyclopes, géants monstrueux qui dévorent les hommes ; de l'autre, la flotte d'Enée et les Troyens qui étaient sur ces côtes."

2. Write short historical notes on "Troie, Nestor, Pylos, Ménélas, Lacédémone, and Enée."

3. Parse and give the derivation of the following words:—siége, lassé, suspens, téméraire, dessein, Cyclopes, géants.

4. Translate :—" Cette condition me parut plus dure que la mort. Je m'écriai, O roi! faites-nous mourir plutôt que de nous traiter si indignement. Sachez que je suis Télémaque, fils du sage Ulysse, roi des Ithaciens ; je cherche mon père dans toutes les mers; si je ne puis le trouver, ni rétourner dans ma patrie, ni éviter la servitude, ôtez-moi la vie, que je ne saurais supporter."

5. Mention all the verbs in this extract—which are regular and which are irregular? Give in full the present indicative, the preterite definite, the future, and the present and past participles of *mourir, être, retourner, savoir.*

6. How many kinds of pronouns are there? Give the personal pronouns in all their persons. Distinguish between *le* pronoun, and *le* article. What is *le* in the sentence " Si je ne puis *le* trouver."

7. State the general rule for the comparison of adjectives. Form the degress of *bon, mauvais, petit.* What adjectives have neither comparatives nor superlatives?

8. Sketch briefly the plan of the 1st Book of Telemachus, and give an aperçu of the author's life.

PRELIMINARY EXAMINATION, MAY, 1880.

MATHEMATICS.—ARITHMETIC AND ALGEBRA.

Examiners—The Bishop of Rupert's Land; The Rev. Professor Cloutier; The Rev. A. Campbell, B.A.—Time, three hours.

1. Multiply $\cdot 22\dot{5}\dot{5}$ of $(\frac{4}{7} + \frac{7}{30})$ by $\frac{1551\cdot55}{65\cdot1}$ of $\frac{21}{20\cdot02}$

2. Add $3\frac{3}{4}$ of $2\frac{1}{5}$ of $7\frac{1}{10}$ of £1, $9\frac{4}{7}$ of $3\frac{3}{8}$ of 1s., and $8\frac{1}{4}$ of $4\frac{1}{8}$ of 1d., and divide the sum by $\frac{1}{11}$ of $5\frac{5}{14}$ of $\frac{3}{8}$ of $3\frac{1}{2}$d.

3. What is the cost of building the walls of a house 28 feet

long, 22 feet wide, and 15 feet high, the walls being fifteen inches in thickness, at 8 cents per cubic foot?

4. If 5 compositors in 16 days, 11 hours long, can compose 25 sheets, of 24 pages in each sheet, 44 lines in each page, and 40 letters in a line; in how many days, each ten hours long, can 9 compositors compose a volume, to be printed in the same letter, consisting of 36 sheets, 16 pages to a sheet, 50 lines to a page, and 45 letters to a line?

5. A trustee held \$12,686.67 in Dominion of Canada 6 per cent. stock. The Government on paying off this stock gave the option of money or the same amount of 5 per cent. stock. When the 6 per cent. stock was paid off the 5 per cent. stock was at $101\frac{3}{4}$. Supposing the trustee had accepted the 5 per cent. stock instead of cash and then sold it out, what would he have gained—the brokerage being $\frac{1}{4}$ per cent.?

6. What is the difference, to 3 places of decimals, between the square root of $\frac{2}{3}$ and the cube root of $\frac{2}{3}$?

7. The product of two factors is $1 - \frac{3}{2}x + \frac{2}{4}x^2 - \frac{8}{8}x^3 + \frac{3}{4}x^4 - \frac{3}{2}x^5 + x^6$, and one of them is $1 - 2x + 4x^2 - 8x^3$, find the other.

8. Shew that $4a^2b^2 - (a^2 + b^2 - c^2)^2$ equals $s(s - 2a)(s - 2b)(s - 2c)$, if $s = a + b + c$.

9. Define the terms Measure, Common Measure, and Greatest Common Measure or Highest Common Factor of two algebraical expressions, and find the G. C. M. or H. C. F. of $xy - 2x^2 - 3y^2 + 4yz + xz - z^2$ and $2x^2 - 9xz - 5xy + 4z^2 - 8yz - 12y^2$.

10. Solve the equations :—

(a) $\frac{2}{3}(6x - 5) - \frac{4}{5}(5x - 4) + (\frac{1}{4} - \frac{1}{3})(4x - 3) = 0.$

(b) $\frac{2}{3}(x + 2y) + \frac{4}{5}(2x + 3y) = 6$
$\frac{3}{4}(x - \frac{1}{3}y) - \frac{2}{3}(x - \frac{1}{4}y) = 0$

(c) $xy + 2yz + 3xz = 6xyz$
$zx + 2xy + 3yz = 6xyz$
$yz + 2zx + 3xy = 6xyz$

11. A messenger starts on an errand at the rate of 5 miles an hour; 40 minutes afterwards another starts to overtake him, which he did in an hour and a half. At what rate did the latter ride?

12. The interest on \$10,550 for 6 months, together with the interest of \$12,660 for 5 months, is equal to \$1,688. Find the rate of interest.

PREVIOUS EXAMINATION, JUNE 4TH, 1880.

GREEK.—DEMOSTHENES.

Examiners — Rev. A. A. Forget Despatis ; Rev. Canon
O'Meara, M.A. ; Rev. Professor Hart, M.A., B.D.
Time, three hours.

I.

1. Translate :—
Εἰ δέ τις ὑμῶν,* ὦ ἄνδρες Ἀθηναῖοι, δυσπολέμητον οἴεται κ.τ.λ.
(12 lines.)

2. Σκοπῶν τό τε πλῆθος, κ.τ.λ. State the force which Philip
had at his command at this time.

3. Τά χωρια. What places were these?

4. Οὐδὲν ἂν ὧν νυνὶ πεποίηκεν ἔπραξεν. Explain fully this
construction. What is it called?

II.

1. Translate:—
Καὶ οἶδα ἀκούων ὅτι Λακεδαιμονίους ποραταττόμενοι, κ. τ. λ. (12
lines.)

Derive παρακύψαντα, στρατηγὸς, εἰκότως, προφάσεις, ἐπόπτας.

2. Πλέοντα. Give the future of this verb, and mention five
other verbs which form their future in this manner.

3. Οἶδα. Write out the present Indicative Active, and pres-
ent Imperative Active of this verb.

4. Ὅτι Λακεδαιμονίουσ. Πρὸς Ἀρτάβαζον. Explain fully the
historical incidents here referred to.

III.

1. Translate :—
Ὑμεῖς δέ, ὦ ἄνδρες Ἀθηναῖοι, πλείστην δύναμιν ἁπάντων, κ. τ. λ.
(13 lines.)

2. Τριηρεις. Describe the Greek ship.

3. Χοημάτων. Give some account of Greek money.

4. Distinguish the methods of voting in the Greek assemblies.

5. Ἐθέλει. Distinguish between ἐθέλω and βούλομαι.

6. Write a life of Demosthenes. Name any other famous
Greek orators.

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* Parse all the words with asterisks.

PREVIOUS EXAMINATION, JUNE 5, 1880.

LATIN.—CICERO.

Examiners—Rev. A. A. Forget Despatis; Rev. Canon O'Meara, M.A ; Rev. Prof. Hart, M.A., B.D.—Time, three hours.

I.

1. Translate :

(*a.*) Interim satis longo intervallo, quum esset, etc., *to* non interfuisse, sed egisse dicit. (16 lines.)

(*b.*) Quod si ipsi hæc neque attingere, etc., *to* celeritatemque ingeniorum negligemus? (8 lines.)

Parse *profectus, voluit, ferebatur, professus, egisse.*

2. Derive *intervallo, auctoritate, fœderatis, nihil, negabis.*

3. Give rules for the case of each of the following nouns :— *Heracleam, Romœ, diebus, annos.*

4. Give precisely the position of Sicilia, and Heraclea.

5. Give a concise statement of Cicero's argument for Archias.

II.

Translate into Latin :

A new war between the Romans and the Gauls having arisen, a certain Gaul noted for his strength and armour advanced and challenged one of the Romans to contend with him. Then M. Valerius, a tribune of the soldiers, presented himself ; and when he had advanced armed, a raven settled on his right arm. Presently, having joined battle, the raven struck the eyes of the Gaul with his wings and claws. Thus it happened that the Gaul was easily slain by Valerius, who from this circumstance received the name of Corvinus.

PREVIOUS EXAMINATION, JUNE 1, 1880.

MODERN LANGUAGES.—ENGLISH HISTORY.

Examiners—Rev. F. Hughes ; A. C. Killam, B.A ; Rev. O. Fortin, B.A.—Time, three hours.

1. Shew the difference in nature and effect between the conquest of Britain and that of any other portion of the Roman Empire by German tribes.

2. Sketch the character of William the Conqueror, and mention the principal events of his life.

3. What were the principal legislative measures introduced in the reign of Henry I. ?

4. Trace the origin of the religious orders of the 13th Century and their influence upon England.

5. What progress was made in English Parliamentary Government in the reign of Edward I. ?

6. Shew by a genealogical table the nature of the claim of Edward III. to the throne of France, and discuss its validity.

7. Give a short sketch of the effects of the Wars of the Roses and of the condition and progress of the English people during their continuance.

8. What were the results of the policy of Thomas Cromwell ?

9. Discuss the characters of John Wyclif, Joan of Arc, Cardinal Wolsey, Thomas Cranmer and Sir Thomas More.

JUNIOR YEAR FOR B.A. EXAMINATION,
MAY, 1880.

MATHEMATICS—TRIGONOMETRY.

Examiners—The Bishop of Rupert's Land, the Rev. Professor
Cloutier, the Rev. A. Campbell, B.A.—Time, three
hours.

1. Explain how angles are measured by degrees and grades.
—What is the circular measure of an angle? If D, G, C be
respectively the number of degrees, grades, and units of circular
measure in an angle, find the connecting equations.

If $\cdot 1$ represent $5°$, how many degrees would there be in the
unit of that measure? Express in the same measure a right
angle.

2. Define the secant, cosecant, and tangent of an angle, and
express the secant and cosecant in terms of the tangent.

3. (*a*) Determine the sines, cosines, and tangents of $30°$
and $60°$.

(*b*) A person observes the elevation of a tower to be $60°$,
and on receding from it 100 yards farther he finds the elevation
to be $30°$: required the height of the tower.

4. Find geometrically the sine of $A + B$ in terms of the sines
and cosines of A and B, and deduce the expressions for sin
$(A - B)$ and cos $(A \pm B)$.

5. Shew that $\sin 2A = 2 \sin A \cos A$, $\cos 2A = 2 \cos^2 A - 1$,
and $\cos 3A = 4 \cos A - 3 \cos^3 A$.

Shew the three different sets of angles with different values
for cos A that would be obtained from the same given value of
cos $3A$.

6. What two exceptions are there to the statement that if
any three are given of the three sides and the three angles of a
plane triangle the rest can be determined?

7. In any plane triangle the sum of any two sides is to their
difference as the tangent of half the sum of the opposite angles
is to the tangent of half their difference.

8. If a, b, c are the 3 sides, and A, B, C the 3 angles of a triangle, and $2s = a + b + c$, shew that

$$\cos \frac{A}{2} = \sqrt{\frac{s(s-a)}{bc}}$$

Given $a = 352\cdot25$, $b = 513\cdot27$, and $c = 482\cdot68$ chains, find the $\angle A$, having given

$$\text{Log } 67410 = 4\cdot8287243$$
$$\text{Log } 32185 = 5\cdot5076535$$
$$\text{Log } 51327 = 4\cdot7103459$$
$$\text{Log } 48268 = 4\cdot6837593$$
$$\text{Log cos } 20°38' = 9\cdot9712184$$
$$\text{Log cos } 20°39' = 9\cdot9711608$$

9. Having given the 3 sides of a triangle, investigate a formula for the area.

Find the area of a triangle whose sides are 40, 60 and 80 yards.

10. An object B is invisible from A in the same plane with it, but a base $A\,C = 80$ feet is measured and the angle $A\,C\,B$ is found to be 144°; the base is produced 40 feet farther to D, when the angle $A\,D\,B$ is found to be the supplement of the angle $A\,C\,B$. Find the distance, $A\,B$.

Given the natural tangent of 36° = $\cdot7265426$.

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B.A. EXAMINATION, JUNE 3rd, 1880.

Honors.—Systematic Botany.

Examiners—Rev. Prof. Bryce; Rev. A. A. Cherrier; Heber Archibald, B.A.—Time, three hours.

1. Describe generally the system of Linnæus.

2. Who are the leading exponents of the Natural System? State any points in which they differ.

3. Describe the Filices and give their four suborders.

4. Describe the fertilization of the mosses.

5. Give the mean features of the cactus family.

6. What are the medicinal characters of the plants of Solanaceæ, Lobeliaciæ, and Asclepiadaceæ respectively.

7. Give the distinguishing marks of the Labiatæ and name plants belonging to the order.

8. Describe the orders Salicaceæ and Coniferæ.

9. Describe the main features of the order Compositæ.

HONORS B.—METEOROLOGY.

Examiners—Rev. Prof. Bryce ; Rev. A. A. Cherrier ; Heber Archibald, B.A.—Time, three hours.

1. Explain the phenomena of dew, fog, clouds, rain, snow, and hail.

2. What is mirage? and explain your answer.

3. Explain how the rainbow is formed.

4. What is meant by Maxima and Minima of temperature?

5. How are the daily, monthly and yearly means calculated?

6. Winds :—How produced? Names of winds and their direction in the torrid zone?

B.A. EXAMINATION, JUNE 4TH, 1880.

HONORS A.—MINERALOGY.

Examiners—Rev. Prof. Bryce, Rev. A. A. Cherrier, Heber Archibald, B.A.—Time, three hours.

1. Name the different systems of crystallization and the relations of the several axes in the different systems. What do striated faces on a crystal indicate?

2. State the value of the character of hardness in determining minerals and give Mohs' scale. What peculiarity as to hardness is there in the allotropic forms of carbon?

3. Describe the following minerals :—Cinnabar, Orpiment, Bog Iron Ore, Galena, Cassiterite.

4. Give a full account of the feldspars.

5. How would you detect a limestone rock, an arsenic compound, rock salt, a strontia compound?

6. Certain minerals have the following characters. Name them :

(1) Colour, brass-yellow; tarnished deep yellow; streak metallic, greenish-black, but little shiny. $H = 3.5 - 4$, $G = 4.15 - 4.3$.

(2) Rhombohedral; vitreous lustre. $H = 3$. Effervesces in cold hydrochloric acid. Tooth-shaped crystal.

7. State the mode of occurrence of gold and silver, either native or in principal ores, and give Canadian localities.

Honors B.—Organic Chemistry.

Examiners—Rev. Prof. Bryce, Rev. A. A. Cherrier, Heber Archibald, B.A.—Time, three hours.

1. Determination of the molecular weight of an organic compound—determination of the vapour density.

2. (*a*) Preparation—use—physical and chemical properties of cyanogen gas, prussic acid, potassium ferrocyanide.

(*b*) Write the formula for cyanuric acid—sulphocyanic acid—alcohol—ether—acetamide.

3. What can you say on the primary or monatomic alcohols and their general characteristics?

4. (*a*) How does starch differ in composition from glucose?

(*b*) What is the composition of gun cotton, and what advantages does it offer over gunpowder?

5. (*a*) What is the constitution of narcotine?

(*b*) What tests may be used to ascertain the presence of morphine and strychnine?

6. (*a*) How may fibrin, albumin and casein be separated?

(*b*) Describe shortly the composition and properties of blood, milk and bile.

EXAMEN POUR LE BACCHALAUREAT ES ARTS, JUIN 2, 1880.

COURS D'HONNEUR (ST. BONIFACE COLLEGE STUDENTS).
PHILOSOPHIE.

ONTOLOGIE ET COSMOLOGIE (2).

Examenateurs—Rev. Jas. Robertson, Rev. J. T. Lavoie, O.M.I.
—Temps, trois heures.

1. In quonam sistat Idealismus Subjectivus?

2. Quid sentiendum sit de idealismo subjectivo Kantii?

3. In quonam sistat idealismus objectivus?

4. Quid sentiendum sit de idealismo objectivo Malebranchii?

5. Refutetur systema Kantii et transcendentalium philosophorum circa essentiam corporum.

6. Utrum mundana materia sit a se?

7. Quomodo intelligi debeat axioma ex nihilo nihil fit?

8. Utrum mundus ab æterno conditus intrinsece repugnat?

9. Refutetur opinio Humi circa legum physicarum constantiam?

10. Quid intelligatur per mundum corporeum?

COURS D'HONNEUR.—PHILOSOHIE.

THEOLOGIE NATURELLE (2).

Examenateurs.—Rev. Jas. Robertson, Rev. J. T. Lavoie, O.M.I.
—Temps, trois heures.

1. Quid intelligatur per Providentiam ?

2. Utrum Dei Providentia ad singularia sese porrigat ?

3. Quid intelligatur per concursum Dei naturalem ?

4. Utrum Deus omnibus agentibus coöperatur ?

5. Utrum Dei cum agentibus liberis coöperatio libertatem lædat aut minuat ?

6. Quotupliciter spectari possit actus pravus ?

7. Utrum Deus etsi ad actus quoque pravos concurrat, sit peccati causa ?

FORM OF BEQUEST.

I give and bequeath to the Treasurer, for the time being, of the BOARD OF MANAGEMENT OF THE COLLEGE OF MANITOBA, in trust for the purposes of said College, the sum of............................ ....to be paid out of my personal estate, without any deduction whatever ; and I direct that the receipt for the said sum of the Treasurer of the above named Board of Management shall constitute and be sufficient discharge thereof.