



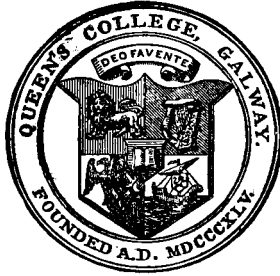
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Queen's College, Galway.

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1887-1888.

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# QUEEN'S COLLEGE, GALWAY,

1887-88.

## DAYS AND HOURS OF MATRICULATION AND SCHOLARSHIP EXAMINATIONS. OCTOBER, 1887.

DAYS.	HOURS.	FIRST YEAR.	SECOND YEAR.	THIRD YEAR.	SENIOR SCHOLARSHIPS.
Tuesday, 18th Oct.	10-5		Supplementary Examinations.	Supplementary Examinations.	
Wednesday, 19th Oct.	10-5		Supplementary Examinations.	Supplementary Examinations.	
Thursday, 20th Oct.	10-1		Scholarship Examinations. Lit. Schol.—Latin.		Latin.
	2-5		Lit. Schol.—Greek.		Greek.
Friday, 21st Oct.	10-11½	<b>MATRICULATION.</b> English.	10-1 { Lit. Schol.—English. Eng. Schol.—Geom. Draw., &c.		English.
	11¼-1 11½-1	Latin. Greek.			
Friday, 21st Oct.	2-3½	French or German or Italian.—	2-5 { Lit. Schol.—English. Eng. Schol.—Geom. Draw., &c.		English.
	3½-5	Mathematics.			
Saturday, 22nd Oct.	10-1		Lit. Schol.—Latin. Med. Schol.—Nat. Hist.	Engin. Schol.— Geology.	Latin. Natural History.
	2-5		Lit. Schol.—Greek. Med. Schol.—Nat. Hist.		Greek. Metaphysics.
Monday, 24th Oct.	10-1	<b>SCHOLARSHIPS.</b> Lit. } Schol.— Med. } English.	Med. } Eng. } Schol.—Mod. Lang. Lit. }	Engin. Schol.— Engin.	French.
	2-5	Lit. } Schol.— Med. } Greek.	Lit. Schol.—Mod. Lan.	Engin. Schol.— Engin.	German. Italian.
Tuesday, 25th Oct.	10-1	Lit. } Schol.— Med. } Latin.	Med. Schol.—Chem.	Engin. Schol.— Chemistry.	Chemistry.
	2-5	Lit. } Schol.— Med. } Greek.			Economic Science.
Wednesday, 26th Oct.	10-1	Lit. } Schol.— Med. } Latin.	Science Schol.—Expl. Physics. Med. Schol.—Nat. Phil. Engin. Schol.—Nat. Phil.	Engin. Schol. Nat. Phil.	Natural Philosophy
	2-5	Science } Schol.— Med. } Arithm. Engin. } Algebra.	Science } Schol.—Math. Engin. }	Engin. Schol.— Nat. Phil.	Modern History.
Thursday, 27th Oct.	10-1	Science } Schol.— Med. } Geom. Engin. } Trig.	Science } Schol.—Math. Engin. } Med. Schol.—Anat.	Engin. Schol.— Math.	Mathematics.
	2-5	Lit. } Med. } French.	Med. Schol.—Anat.	Engin. Schol.— Math.	Practical Chemistry.
Friday, 28th Oct.	10-1	Lit. } Med. } German.			
	2-5	Lit. } Med. } Italian.			

The Examination for the Third and Fourth Year Scholarships in MEDICINE will commence on Thursday, the 27th October.

Arrangements will be made for holding the Examinations for Law Scholarships early in December.

B

QUEEN'S COLLEGE, GALWAY.—FOUNDED DECEMBER 30, 1845.

THIS College is a Corporation, founded by Letters Patent under the Great Seal of Ireland, under the name and style of the "President and Professors of Queen's College, Galway."

The general government and administration of the College under the Statutes, and in cases not provided for by the Statutes, is vested in a Council consisting of the President, and six Professors elected by the Corporate Body.

VISITORS.

His Grace the Lord Primate.  
 The Right Honorable the Chief Secretary for Ireland.  
 The Right Reverend the Lord Bishop of Tuam.  
 The Right Honorable the Lord FitzGerald.  
 The Right Honorable the Lord Chief Justice of the Queen's Bench.  
 The Rev. the Moderator of the General Assembly.  
 The President of the King and Queen's College of Physicians.  
 The President of the Royal College of Surgeons.

PRESIDENT.

THOMAS W. MOFFETT, LL.D., D.LIT.

COUNCIL.—1887—88.

The President.	George J. Allman, LL.D., D.SC.,
Richard J. Anderson, M.A., M.D., F.L.S.,	F.R.S.
M.R.C.S. ENG.	Edward Townsend, M.A., D.SC.
John I. Lynham, M.D., M.CH., F.R.U.I.	Richard J. Kinkead, B.A., M.D.
D'Arcy W. Thompson, M.A., D.LIT., F.R.U.I.	

PROFESSORS.

Greek, . . . . .	D'Arcy W. Thompson, M.A., D.LIT., F.R.U.I.
Latin, . . . . .	John Fletcher Davies, M.A., D.LIT.
Mathematics, . . . . .	George Johnston Allman, LL.D., D.SC., F.R.S., Senator, R.U.I.
Natural Philosophy, . . . . .	Alexander Anderson, M.A., F.R.U.I.
History, English Literature, and Mental Science,	Thomas W. Moffett, LL.D., D.LIT., Senator, R.U.I.
Chemistry, . . . . .	Thomas H. Rowney, PH.D., D.SC.
Natural History, . . . . .	Richard J. Anderson, M.A., M.D., F.L.S., F.Z.S., M.R.C.S. ENG.
Mineralogy and Geology,	
Modern Languages, . . . . .	Valentine Steinberger, M.A., Examiner, R.U.I.
Jurisprud. and Polit. Econ.	Charles Francis Bastable, M.A., B.L.
English Law, . . . . .	William B. Campion, B.A., Sergeant-at-Law.
Anatomy and Physiology,	Joseph P. Pye, M.D., M.CH., D.SC., F.R.U.I.
Practice of Medicine, . . . . .	John Isaac Lynham, M.D., M.CH., M.A.O., F.R.U.I.
Practice of Surgery, . . . . .	James V. Browne, M.D., L.R.C.S.I.
Materia Medica, . . . . .	Nicholas W. Colahan, M.D., M.CH.
Midwifery, . . . . .	Richard John Kinkead, B.A., M.D.
Civil Engineering, . . . . .	Edward Townsend, M.A., D.SC., Examiner, R.U.I.
Lecturers on Medical Jurispru- dence,	Richard John Kinkead, B.A., M.D. Thomas H. Rowney, PH.D., D.SC.

OFFICE-BEARERS.

Edward Townsend, M.A., D.SC., . . . . .	Registrar.
George J. Allman, LL.D., D.SC., F.R.S. . . . .	Bursar.
D'Arcy W. Thompson, M.A., D.LIT., . . . . .	Acting Librarian.

DEANS OF RESIDENCE.

Church of Ireland, . . . . .	Rev. Canon O'Sullivan, M.A.
General Assembly of the Presbyterian Church in Ireland,	Rev. John C. Clarke, B.A.
Wesleyan Methodist Church, . . . . .	Rev. John Carson.
Independent Church, . . . . .	Vacant.

### THE COLLEGE SESSION.

The College Session commences on the third Tuesday in October, and, in the Faculty of Arts and the School of Engineering, continues until the second Saturday in June ; it is divided into three Terms.

The First Term of the Session 1887-88 commences on Tuesday, October 18, and ends on December 24, 1887.

The Second Term commences on January 9, and ends on 24 March, 1888.

The Third Term commences on April 9, and ends on June 9, 1888.

In the Faculties of Law and Medicine the Session terminates at the end of April.

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### STUDENTS.

Students are either Matriculated, or Non-Matriculated.

Non-Matriculated Students are permitted to attend the Lectures of any of the Professors.\*

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### MATRICULATION.

Every Matriculated Student is required to wear a cap and gown.

The Matriculation Examination is held at the commencement of the first Term of each Session. In the Session 1887-88, it will commence on Friday, 21st October, at 10 o'clock, A.M.

An additional Matriculation Examination will be held on the 16th of November.

Each candidate, before being admitted to the Matriculation Examination, is required to pay to the Bursar the Matriculation fee of ten shillings. This fee will not be returned to students who may fail to pass the Examination ; but such students may present themselves at any subsequent Matriculation Examination in the same year without additional payment.

Candidates for Matriculation are required to appear in the Registrar's office at ten o'clock the day after the Matriculation Examination, for the purpose of entering their names on the College books.

The Council will admit any Student to Matriculation without examination who has passed the Entrance Examination of the Queen's Colleges, Belfast or Cork, or of any University within the United Kingdom empowered to grant Degrees in the several Faculties of Arts, Law, Medicine, and School of Engineering. Provided

- (a.) His certificate of Matriculation be lodged with the Registrar.
- (b.) He pass that portion of the Matriculation Examination of the College not included in the Entrance Examination of such other Colleges or Universities.
- (c.) That the College Fees shall have been paid.

A certificate of Matriculation will not be granted to any student until he has paid the whole of the *Class Fees* for the Session, and commenced attendance on Lectures.

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### STUDENTS OF OTHER UNIVERSITIES.

Any Student who shall have pursued part of his Collegiate Studies in any one of the Queen's Colleges, or in any University empowered to grant Degrees in the several Faculties of Arts, Law, Medicine, and School of Engineering, on passing such Examinations, and fulfilling such other conditions as the Council shall prescribe, may take corresponding rank in this College ; and also may compete for Junior Scholarships or other Prizes of the corresponding year, provided he shall not hold at the same time a Scholarship or other office of emolument in any other University, College, or Medical School.

\* For further particulars of the status and privileges of Non-Matriculated Students *vide* p. 8.

### RULES RELATING TO ATTENDANCE ON LECTURES.

All Students are required to attend Lectures.

No Student shall be admitted to Lectures until he has paid College and Class Fees to the Bursar, and entered his name with the Registrar.

Attendance on Lectures includes preparation for Lectures; a Professor who, on any occasion, is not satisfied with the preparation of a Student, may refuse him credit for attendance.

Attendance upon Courses of Lectures in the Faculty of Arts is recognised in cases where Students pass to a different Faculty or School.

In case of absence arising from illness, or other unavoidable cause, the Student is required to lodge with the Registrar, a letter or certificate explaining his absence, to be laid before the Council.

### EXAMINATIONS.

An Examination is held at the close of each Session in the subjects upon which Lectures have been delivered. A Supplementary Examination in the same subjects is held at the commencement of the following Session.

Every Matriculated Student in Arts Law, and Engineering, must pass either the Sessional, or the Supplementary, Examination, before his name can be entered on the College Register as having completed the Session; and no Student can be permitted to enter upon the Course of the succeeding year until he has so completed the previous Session in any one of the Queen's Colleges, or in any University empowered to grant Degrees.

No Student is admitted to the Sessional, or the Supplementary, Examination, who has not attended the Courses of Lectures prescribed to Students of his class and standing.

### SCHOLARSHIPS.\*

Forty-six Junior and nine Senior Scholarships have been founded in the College.

Of the Junior Scholarships †—

Thirty, of the value of £24 each, are tenable by Students in the Faculty of Arts.

Three, of the value of £20 each, in the Faculty of Law.

Eight, of the value of £25 each, in the Faculty of Medicine.

Five, of the value of £20 each, in the School of Engineering.

The Examinations for Junior Scholarships are held during the First Term of the Session.

No Student can compete for any Scholarship until—

- (a.) He has Matriculated.
- (b.) He has paid the College and Class Fees.
- (c.) He has entered his name with the Registrar.
- (d.) He has completed the Course of the previous year in any one of the Queen's Colleges, or in any University empowered to grant Degrees.

All Senior Scholars are required to be in attendance in the College during their period of office, and to assist the Professors in such ways and under such regulations as the Council shall prescribe.

Senior Scholars, except in the Faculties of Law and Medicine, who have not taken the Degree of B.A. or of B.E., shall be required to attend the Courses prescribed for the third year in Arts.

\* For exceptionally high answering at examinations for Junior Scholarships in Arts, Law, Medicine, and Engineering the value of a Scholarship may be raised by Council to a sum not exceeding £32.

† For the distribution of these Scholarships, the subjects of Examination, and the conditions upon which they are held, *vide* pp. 13 to 26.





## LIBRARY REGULATIONS.

The Library is open from the 1st of August to the 1st of October, between the hours of 11 A.M. and 3 P.M., and from the 1st of October to the 1st of November, between the hours of 10 A.M. and 5 P.M. From 1st November to 1st March, between the hours of 10 A.M. and 4 P.M., and from 1st March to 1st July, between the hours of 10 A.M. and 5 P.M.

The Library is closed (1) during the month of July; (2) on College holidays; (3) for a period of five days in the Christmas and Easter recesses respectively.

No Student is admitted to the Library without subscribing the following declaration :—

We the undersigned do hereby promise to the President and Council of Queen's College, Galway, that we will not mark, turn down the leaves of, or write on paper placed upon, or in any way whatsoever soil, deface, injure, or remove, without permission, any book or document in the Library of said College. We also promise that we will not injure the Library furniture; that we will faithfully observe all the rules made for the regulation of the Library; and that we will acquaint the College Authorities with any serious instance of violation of the above rules which may come under our notice.

No Student can borrow books from the Library until he has deposited the sum of £1 with the Bursar, which will be returned to him at the end of a Term on the production of a Certificate from the Librarian stating that the books borrowed by him have been returned uninjured.

No Student can have more than two volumes on loan from the Library at the same time.

No Student can retain a volume borrowed from the Library more than one week; but the borrower, on returning the book, may renew the loan, if the book has not been in the meantime applied for.

Any Student, on receiving at any time a notice from the Librarian, must return, within twenty-four hours, the books belonging to the Library in his possession.

Any Student losing or injuring a book belonging to the Library must replace it by another copy of the same edition and of equal value, or pay such a sum of money as will enable the College to replace it.

**MATRICULATION EXAMINATION IN THE FACULTIES OF  
ARTS, LAW, AND MEDICINE.**

Candidates will be required to answer in the following subjects:—

I. LATIN.

II. Any one of the following languages:—

GREEK, FRENCH, GERMAN.

III. ENGLISH.

IV. MATHEMATICS.

V. ELEMENTARY MECHANICS (for Medical Faculty only).

The following are the particulars of the foregoing subjects of Examination:—

**THE LATIN LANGUAGE.**

Any two of the following which the Candidate may select:—

Virgil—Æneid, Book I., II., V.

Horace—Odes, Book I.; or Satires, Book I.

Livy, XXI.

Cæsar—Gallic War, Books IV. and V.

Cicero—De Senectute, or Pro Lege Manilia.

Outlines of Roman History.

NOTE.—A paper will be set in Latin Grammar.

**THE GREEK LANGUAGE.**

One Poetical and one Prose Work, to be selected from the following list:—

1. Euripides—Medea or Phœnissæ.

2. Homer—Iliad, Book I. or Book II.

3. Xenophon—Anabasis, Book III. or Book IV.

Outlines of Grecian History.

NOTE.—A paper will be set in Greek Grammar, touching on declensions, conjugations, and rules of Syntax.

**THE FRENCH LANGUAGE**

Guizot:—Guillaume le Conquérant.

Elements of French Grammar.

**THE GERMAN LANGUAGE.**

Elements of German Grammar

Hauff's Maerchen:—Der junge Engländer.

**THE ENGLISH LANGUAGE.**

English Grammar and Composition.

Outlines of Ancient and Modern Geography.

Macaulay—Essay on Clive.

Goldsmith—The Deserted Village.

**MATHEMATICS.**

Arithmetic—Including Vulgar and Decimal Fractions, the Rule of Three, Simple Interest, and the Extraction of the Square Root.

Algebra—Including Fractions, Proportion, and the Solution of Simple Equations.

Geometry—Euclid, Books I., II.

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**FACULTY OF ARTS.**

The course of study extends over three Sessions.

**FIRST SESSION.**

**PRESCRIBED PASS COURSES.**

I. English.

II. Any one of the following:—Greek, French, German.

III. Latin.

IV. Mathematics.

V. Experimental Physics.

Students may substitute Honour Courses in Latin, Greek, Mathematics and Modern Languages, for the Pass Courses in these subjects.

SECOND SESSION.

PRESCRIBED PASS COURSES.

- I. Latin.
- II. Greek.
- III. English Language and Literature.
- IV. Either French or German.
- V. Logic (Two Terms.)
- VI. Mathematics.
- VII. Mathematical Physics.
- VIII. Experimental Physics.
- IX. Chemistry.
- X. Natural History (including Physiology, Botany, and Zoology.)
- XI. Geology (including Mineralogy, and Physical Geography.)

Students may substitute Honor Courses in Mathematics, Mathematical Physics, for the Pass Courses in these subjects.

N.B.—Students may attend, at their option, any one of the following groups of subjects:—

- (1.) Latin, Greek, English, Logic, and one other of the above subjects.
- (2.) Latin, Greek, English, Mathematics, and one other of the above subjects.
- (3.) Mathematics, Mathematical Physics, and two other of the above subjects.

THIRD SESSION.

PRESCRIBED PASS COURSES.

- I. Latin.
- II. Greek.
- III. English, or History, and either French or German, or Italian.
- IV. Logic, and either Metaphysics, Ethics, Political Economy, Jurisprudence.
- V. Mathematics.
- VI. Mathematical Physics.
- VII. Experimental Physics.
- VIII. Chemistry.
- IX. Natural History (including Physiology, Zoology, and Botany).
- X. Geology (including Mineralogy, and Physical Geography).

N.B.—Students may attend, at their option, in any one of the following groups of subjects:—

- A. (1.) Latin; (2.) Greek; and (3.) any one other of the above subjects.
- B. (1.) Latin; (2.) Logic, Metaphysics, with History of Philosophy; and (3.) either Ethics or Political Economy.
- C. (1.) Mathematics; and (2.) (3.) two others of the above subjects, one of which must be one of those enumerated under heads VI. to X.

or Honor Lectures in any one of the following Groups:—

- I. Latin and Greek Languages and Literature.
- II. English, French, and German, or Italian.
- III. Logic, Metaphysics, Ethics, and History of Philosophy
- IV. Civil and Constitutional History, Political Economy and General Jurisprudence.
- V. Mathematics and Mathematical Physics.
- VI. Experimental Physics and Chemistry.
- VII. Biology and Geology.

For the regulations as to University Examinations in Arts, see Appendix.

## DAYS AND HOURS OF LECTURES.

Subjects.		Terms.	Mon.	Tues.	Wed.	Thurs.	Friday.	Sat.
1st Year	French, . . . . .	1, 2, 3,	10	.	10	.	10	.
	German, . . . . .	1, 2, 3,	.	10	.	10	.	.
	Italian, . . . . .	.	.	.	.	.	.	.
	Latin (pass), . . . . .	1, 2, 3,	12	.	12	.	12	.
	Greek (pass), . . . . .	1, 2, 3,	.	12	.	12	.	12
	Mathematics (pass), . . . . .	1, 2, 3,	1	.	1	.	1	.
	English, . . . . .	1, 2, 3,	11	.	11	.	11	.
	Latin (honor), . . . . .	1, 2, 3,	.	11	.	11	.	11
	Greek (honor), . . . . .	1, 2, 3,	12	.	12	.	12	.
	Mathematics (honor), . . . . .	1, 2, 3,	.	1	.	1	.	.
Experimental Physics, . . . . .	1, 2, 3,	.	12	.	12	.	12	
2nd Year	French, . . . . .	1, 2, 3,	10	.	10	.	.	.
	German, . . . . .	1, 2, 3,	.	12	.	12	.	.
	Italian, . . . . .	-	.	.	.	.	.	.
	Greek, . . . . .	1, 2, 3,	.	11	.	11	.	11
	Latin, . . . . .	1, 2, 3,	11	.	11	.	11	.
	Mathematics (pass), . . . . .	1, 2, 3,	.	1	.	1	.	.
	Logic, . . . . .	1, 2,	1	.	1	.	1	.
	Mathematics (honor), . . . . .	1, 2, 3,	2	.	2	.	2	.
	English Language and Literature, . . . . .	1, 2, 3,	.	2	.	2	.	2
	Mathematical Physics (honor), . . . . .	1, 2, 3,	.	.	.	.	.	.
Experimental Physics, . . . . .	1, 2, 3,	.	.	.	.	.	.	
Chemistry, . . . . .	1, 2, 3,	12	.	12	.	12	.	
Biology, . . . . .	1, 2, 3,	.	.	.	.	.	.	
Mineralogy and Geology, . . . . .	1, 2, 3,	.	.	.	.	.	.	
3rd Year	Zoology or Botany, . . . . .	1, 2, 3,	.	3	3	3	.	.
	Chemistry, . . . . .	1, 2, 3,	12	.	12	.	12	.
	English Language and Literature, . . . . .	1, 2,	3	.	3	.	3	.
	Metaphysics, . . . . .	1, 2,	.	1	.	1	.	1
	History, . . . . .	1, 2,	2	.	2	.	2	.
	Logic, . . . . .	1, 2,	.	12	.	12	.	12
	French, . . . . .	1, 2, 3,	.	.	.	11	.	11
	German, . . . . .	1, 2, 3,	.	11	.	.	11	.
	Italian, . . . . .	-	.	.	.	.	.	.
	Latin, . . . . .	1, 2, 3,	.	.	.	.	.	.
	Greek, . . . . .	1, 2, 3,	.	.	.	.	.	.
	Ethics, . . . . .	-	.	.	.	.	.	.
	Political Economy, . . . . .	1, 2,	.	.	.	.	.	.
	Mathematics, . . . . .	1, 2, 3,	.	.	.	.	.	.
	Mathematical Physics, . . . . .	1, 2, 3,	.	.	.	.	.	.
Experimental Physics, . . . . .	1, 2, 3,	.	.	.	.	.	.	
Mineralogy and Geology, . . . . .	1, 2, 3,	.	.	.	.	.	.	
History of Philosophy, . . . . .	-	.	.	.	.	.	.	
Civil and Constitutional History, . . . . .	-	.	.	.	.	.	.	
Jurisprudence, . . . . .	1, 2,	.	.	.	.	.	.	

## JUNIOR SCHOLARSHIPS IN ARTS.

The Examinations for these Scholarships are held at days and hours stated in the Time Table :—

Ten are tenable by Students of the First Year.		{Five allocated to Literature. {Five to Science.
Ten       "       "       Second Year.		{Five allocated to Literature. {Five to Science
Ten       "       "       Third Year.		{Five allocated to Literature. {Five to Science.

The Council reserves the power to itself, in case Scholarships in either department are withheld on the ground of insufficient answering, of assigning the unawarded Scholarships to the other department.

Scholarships and Exhibitions, of the First Year, are tenable for one year; of the Second Year for two years.

### SCHOLARSHIP EXAMINATIONS.—SESSION 1887–1888.

#### LITERARY SCHOLARSHIPS, FIRST YEAR.

Candidates for Literary Scholarships will be required to answer in the following subjects :—

I. **LATIN.**

II. Any one of the following languages :—

GREEK, FRENCH, GERMAN, ITALIAN.

III. **ENGLISH.**

Particulars of the subjects of Examination. (No mark under one-fifth of the maximum attached to each subject shall be taken into account in any subject) :—

**LATIN, 150.**

Cicero—In Catilinam, i-iv.  
 Virgil—The *Æneid*, Books III., V.  
 Cæsar—De Bello Gallico, Books I., II.  
 Horace—Odes, Books I., II.  
 Sallust—Catiline.  
 A Paper on Latin Grammar.  
 Roman History—Outlines  
 Composition in Latin Prose.

**GREEK, 150.**

Homer—*Iliad*, Books IX., XXIII.  
 Euripides—*Medea*.  
 Xenophon—*Æconomicus*.  
 A piece of unprepared Greek from the *Anabasis*, or *Cyropædia*, or the *Hellenics* of Xenophon.  
 Grecian History; The Peloponnesian War.  
 Composition in Greek prose.  
 Plato—*Apology*.

**FRENCH, 100.**

Racine—*Andromaque*.  
 Guizot—*Guillaume le Conquérant*.  
 La Fontaine—*Fables*, Books III., IV.  
 French Grammar. (Translation from English into French.)

**GERMAN, 100.**

Chamisso—*Peter Schlemihls' Wundersame Geschichte*.  
 Schiller—*Wilhelm Tell*, Acts I., II., III.  
 German Grammar. (Translation from English into German.)

**ITALIAN, 100.**

Silvio Pellico, Lemie Prigioné, 50 to 99.  
Soave Nouvelle Moral, I. to X.  
Metastasio Isacco.  
Italian Grammar. (Translation from English into Italian.)

**ENGLISH, 100.**

English Grammar and Composition.  
Outlines of Modern Geography.  
Shakspeare—Julius Caesar.  
Johnson—Vanity of Human Wishes.  
Macaulay—Essay on Clive.  
Essays on the Spectator Club (Clarendon Press Selected Essays), pages 229–315.

**NOTE.**—A paper of questions will be set in Greek Grammar, touching on Declensions, Conjugations, ordinary Rules of Syntax, and Idiomatic Constructions.

**NOTE.**—In Group II., embracing Greek, French, German, Italian, the candidates must answer in one subject, may answer in two, but not in more.

**SCIENCE SCHOLARSHIPS, FIRST YEAR.****MATHEMATICS.****Arithmetic :—**

Including Vulgar and Decimal Fractions, the Rule of Three, Simple Interest, and the Extraction of the Square Root.

**Algebra :—**

Including the Solution of Simple and Quadratic Equations; Arithmetical and Geometrical Progressions; Permutations and Combinations; the Binomial Theorem for a positive Integral exponent; the nature and use of Logarithms. Problems.

**Geometry :—**

Euclid, Books I., II., III., IV., and VI., with definitions of Book V. or the subjects thereof, Deductions.

**Plane Trigonometry :—**

So far as to include the Solution of Triangles. Problems.  
The use of Logarithmic and Trigonometrical Tables.

**\* LITERARY SCHOLARSHIPS, SECOND YEAR.**

Candidates for Literary Scholarships will be required to answer in the following subjects :—

LATIN,

ENGLISH,

GREEK, or any two of the following :—FRENCH, GERMAN, ITALIAN.

**THE GREEK LANGUAGE—200.**

Sophocles—Ajax.  
Euripides—Medea.  
Plato—Euthyphro and Crito.  
First Six Orations of Lysias (Clarendon Press).  
Herodotus—Book VI.  
A piece of unprepared Greek.  
Greek History—from B.C. 500 to B.C. 430.

**THE LATIN LANGUAGE—200.**

Horace—Odes, Books III., IV. Carmen Saeculare, Satires, II.  
Virgil—Georgics I.—Eclogues 1, 4, 10.  
Cicero—Philippics, I., II.  
Livy—Book XXII.  
A piece of unprepared Latin.  
Latin Prose Composition.  
Roman History and Antiquities. From B.C. 133 to B.C. 78.

\* Students who have completed their First Year in any recognised University or College (see page 6), can compete for these Scholarships.

## THE ENGLISH LANGUAGE—100.

Shakspeare—The Merchant of Venice.  
 Milton—Lycidas.  
 Pope—Essay on Man.  
 Johnson's Life of Pope.  
 Gray—Elegy; Odes (on Spring; to Eton; to Adversity; the Progress of Poesy; the Bard).  
 Macaulay—Essay on Sir William Temple.  
 History of English Literature from 1700 to 1820.

## MODERN LANGUAGES.

## French—100 :—

Voltaire—Mérope.  
 Racine—Les Plaideurs.  
 Bossuet—Oraison funèbre sur le Prince de Condé.  
 Consideratons sur le grandeur des Romains.  
 Questions on the Works and Lives of the Authors prescribed.  
 French Grammar.  
 Translation from English into French.

## German—100 :—

Lessing—Minnavon Barnhelm.  
 Schiller—Jungfrau von Orleans.  
 Hauff—Das Bild des Kaisers.  
 German Grammar.  
 Translation from English into German.  
 Questions on the Works and Lives of the Authors prescribed.

## ITALIAN, 100.

Manzone—I. Promessi Sposi, XXVII. to XXXVII.  
 Alfieri—Merope.  
 Monti—La Basyillana.  
 Italian Grammar.  
 Translation from English into Italian.  
 Questions on the Works and Lives of the Authors prescribed.

## GEOGRAPHY.

As in the First Year.

## COMPOSITION.

In Greek, Latin, English, French, German, and Italian Prose.

*Observation.*—The number placed opposite each subject in the above list shall be the standard mark, and no mark under one-fifth of the standard mark shall be taken into account in any subject.

## \* SCIENCE SCHOLARSHIPS, SECOND YEAR.

## MATHEMATICS.

The Course appointed for Science Scholarships of the first year, and in addition,

## Algebra :—

Nature and Simple Transformations of Equations; Method of Indeterminate Co-efficients; Elements of Determinants.

## Geometry :—

Elements of Solid Geometry:—Euclid Book XI.; Propositions, 1 to 21 inclusive, with easy deductions from them; Elementary Properties of the Pyramid, Cone of Revolution and Sphere.

## Trigonometry :—

Plane and Spherical.

\* Students who have completed their First Year in any recognised University or College (see page 6) can compete for these Scholarships:

**Analytic Geometry :—**

Discussion of the Equations of the Right Line and Circle; Equations of the Conic Sections, deduced from their Geometrical definitions, with their elementary properties. Easy Problems.

The Professor's Lectures to the Class of the First Year.

**EXPERIMENTAL PHYSICS.**

The Elementary Principles of Mechanics, Hydrostatics, Pneumatics, Sound, Heat, Light, Electricity and Magnetism.

**SENIOR SCHOLARSHIPS.**

The College is empowered to award Seven Senior Scholarships of the value of forty pounds each by Examination to Matriculated Students whose answering is reported as meritorious, and who shall have, during three College Sessions, of which two at least shall have been attended in Queen's College, Galway, attended such courses of Lectures, and passed such Examinations as shall be prescribed in that behalf by the Council of Queen's College, Galway, and who shall have passed the necessary Examinations within five years from the date of Matriculation, and who shall have complied with such further conditions as the Council shall impose, provided he shall not have previously obtained a Senior Scholarship in the same department in this or in either of the other Queen's Colleges.

The Third College Session referred to in the Statute relating to Senior Scholarships may have been attended by Candidates in any one of the Queen's Colleges in Ireland, or in a College of any University in the United Kingdom.

Of these Scholarships one is awarded for proficiency in each of the following departments :—\*

- |  |                                       |
|--|---------------------------------------|
| 1. The Greek and Latin Languages and Literature. | 4. Natural Philosophy.                |
| 2. The Modern Languages, and Modern History.     | 5. Metaphysical and Economic Science. |
| 3. Mathematics.                                  | 6. Chemistry.                         |
|  | 7. Natural History.                   |

**I.—GREEK AND LATIN LANGUAGES, AND ANCIENT HISTORY.****The Greek Language :—**

Demosthenes—De Corona.  
 Thucydides—Books III., IV.  
 Plato—Theætetus.  
 Philoctetes—Agamemnon and Eumenides  
 Sophocles—Ajax and Philoctetes.  
 Aristophanes—Nubes.  
 Translation from a passage of unprepared Greek.  
 Grecian History, from B.C. 560 to B.C. 322.  
 Composition in Greek Prose.

**The Latin Language :—**

Martial—Books V. to IX. (Paley and Stone's Ed.)  
 Tacitus—Annals, Books I., II., III., IV.  
 Lucretius—Books V., VI.  
 Persius—Satires. Except IV.  
 Cicero—Pro Plancio and Pro Sestio.  
 Do., Ad Atticum, III., IV.  
 Virgil—Æneid, X.—XII.  
 Horace—Odes I. to IV.  
 Latin Prose Composition.  
 Advanced Latin Grammar.  
 A specified period of the History of Latin Literature and Antiquities—From Plautus (B.C. 227) to Tacitus.

\* For the days and hours of the Examinations for these Scholarships see page 3.



## II.—MODERN LANGUAGES AND MODERN HISTORY

**The English Language :—**

- Chaucer—Prologue and Knight's Tale.  
 Shakspeare—Hamlet, Tempest, and Henry IV.  
 Bacon—Advancement of Learning, Book II., chaps. 1-22.  
 Clarendon—History of the Rebellion, Book VI. (Clarendon Press Edition.)  
 Byron—Childe Harold, Cantos III., IV.  
 Moore—The Fire Worshippers.  
 Burke's Thoughts on the Present Discontents, and two Speeches on America.  
 Coleridge's Notes on Shakspeare (Bohn's Series, pp. 183-394.)  
 Grattan—Speech on the Renewal of the War.  
 Curran's Speech in defence of Hamilton Rowan.

**The French Language:—**

- Descartes—Discours de la Méthode.  
 Racine—Britannicus.  
 Corneille—Cinna.  
 Moliere—Le Malade imaginaire.  
 French Literature of the 16th, 17th, and 18th Century.  
 Brachet's Grammaire Historique de la Langue Française.  
 Translation from English into French.  
 Brachet—Morceaux choisis des grands écrivains du 16 siècle, with the Introduction.

**The German Language :—**

- Schiller—Historische Skizzen. (Clarendon Press Series.)  
 Goethe—Herman und Dorothea.  
 Do. —First Part of Faust.  
 Do. —Tasso.  
 Lessing—Laokoon.  
 History of German Literature, from Klopstock to 1840.  
 Translation from English into German.

**Italian :—**

- Dante—Selections from the Inferno. (Clarendon Press.)  
 Tasso—Gerusalemme Liberata, Cantos VI. to XII.  
 Monti—Aristodemo.  
 Manzoni Il Conte de Carmagnola.  
 Translations from English into Italian.  
 History of the Lives and Works of the Authors prescribed.

**Modern History :—**

- History of Great Britain and Ireland from 1539 to 1815  
 History of France during the same period.

## III.—MATHEMATICS.

The Mathematical Course appointed for the Science Scholarship of the second year ; theory of Algebraical Equations, including their numerical solution ; Analytic Geometry of two and of three dimensions ; Differential and Integral Calculus, including its application to Geometry.

## IV.—NATURAL PHILOSOPHY.

**Mathematical Physics, including—**

- Statics, with the Elementary Theory of Attractions.  
 Dynamics of a Particle.  
 The Elementary Principles of the Dynamics of Rigid Systems.  
 Hydrostatics.  
 Geometrical and Physical Optics.  
 Spherical Astronomy.

**Experimental Physics :—**

The subjects treated in Everett's Translation of Deschanel's Natural Philosophy.

## V.—METAPHYSICAL AND ECONOMIC SCIENCE.

**Metaphysics :—**

- (i.) Object, methods, and chief divisions of Metaphysics.  
 (ii.) Notion of Being. Conceptions of Existence, Essence, Substance. Quality, Accident, Nature, Subsistence, Personality, Unity, Number, Identity, Diversity, Simplicity, Extension, Quantity, Space, Duration, Finite, Infinite ; Relation ; Possibility ; Cause and Effect.

*Psychology.*—(i.) Enumeration and Analysis of Psychological phenomena, as Consciousness, Sensation, Imagination, Remembrance, Judgment, Reasoning, Appetite, Emotion, Volition.

(ii.) Subject, Object, and their relation in cognition. Perception; Conception; Laws of mental development, and Association of mental phenomena. The Nature and Properties of the Human Mind; mutual relations of the Mind and Body. Immortality. Candidates will be required to answer on the above course.

*Either* (i.) according to the principles of the philosophy of Aquinas [as expounded in Zigliara's *Summa Philosophica in usum Scholarum*, or other similar treatise.

Or (ii.) according to the principles of Sir W. Hamilton's Psychological and Metaphysical system; with special reference to Hamilton's Lectures on Metaphysics, Lectures XVI. to XL., and Notes A., B., C. in his edition of Reid, excluding the merely historical matter contained in those notes.

#### Jurisprudence :—

Holland—Elements of Jurisprudence.

Maine—Ancient Law.

#### Economics :—

Smith—The Wealth of Nations, Books I. and II.

Mill—Principles of Political Economy.

Cairnes—Leading Principles of Political Economy.

Bastable—Theory of International Trade.

#### VI.—CHEMISTRY.

##### Theoretical Chemistry :—

Miller's Elements of Chemistry (sixth edition).

Roscoe and Schorlemmer's Elements of Chemistry.

Watt's Dictionary of Chemistry.

Fownes' Chemistry (eleventh edition).

##### Practical Chemistry :—

Analysis, and an acquaintance with Manipulation, to the extent to which it is carried out in the *Practical Course* prescribed for Medical Students, will be considered the minimum. (Bowman's Introduction to Practical Chemistry is recommended.)

#### VII.—NATURAL HISTORY.

The Examination for the Senior Scholarship in Natural History will consist of three parts :—

I. Dissection of specimens of the invertebrate sub-kingdoms, such as the leech, earthworm, cockroach, crayfish, mussel, snail, and starfish; and of the vertebrate classes: codfish, frog, pigeon, and rabbit.

II. An examination on wet and dry specimens.

III. A written examination on Biology.

Candidates are advised to pay attention to the practical work.

#### FACULTY OF LAW.

##### MATRICULATION.\*

The following course of study is prescribed :—

##### FIRST YEAR.

The Law of Property and the Principles of Conveyancing.  
Jurisprudence.

##### SECOND YEAR.

Equity and Bankruptcy.  
Civil Law.

##### THIRD YEAR.

Common and Criminal Law.  
Civil Law and Jurisprudence.

##### JUNIOR SCHOLARSHIPS IN LAW.

Of the three Junior Scholarships appropriated to the Faculty of Law, one is tenable by a Student of the First Year, one by a Student of the Second Year, and one by a Student of the Third Year.

\* See page 10. Matriculation in Arts.

**SUBJECTS OF EXAMINATION.—FIRST YEAR.**

**LAW OF PROPERTY, &c.**

Williams' Real Property.

**JURISPRUDENCE.**

Holland—Elements of Jurisprudence.

Maine—Ancient Law and Early History of Institutions.

**SECOND YEAR.\***

**EQUITY.**

Smith's Manual of Equity Jurisprudence.

**LAW OF PROPERTY, &c.**

Williams' Personal Property; Smith's Lectures on the Law of Contract.

All the business of the preceding Session.

**JURISPRUDENCE AND CIVIL LAW.**

Jurisprudence as for First Year's Scholarship.

Civil Law—The Law of Property.

„ Obligations and Actions as treated by the Institutional Writers.

**THIRD YEAR.**

**LAW.**

All the business of the two preceding Sessions.

Broom's Commentaries on the Common Law, Books II., III.

White and Tudor's Leading Cases in Equity, Vol. I.

Stephen on Pleading.

**JURISPRUDENCE AND CIVIL LAW.**

The same as the course for the second year, together with—

Maine: —Early Law and Custom.

Civil Law: The Law of Persons and Inheritance as treated by the Institutional Writers.

**THE DEGREES OF LL.B. AND LL.D.**

See Regulations of the Royal University in Appendix.

**SENIOR SCHOLARSHIP.**

The College is empowered to award one Senior Scholarship of the value of forty pounds, by Examination, to the most distinguished Student who, in addition to the courses of Lectures and Examinations prescribed for Candidates for Senior Scholarships in Arts, shall have attended during three Sessions the courses of Law Lectures prescribed by the Council, and shall have passed the necessary Examinations for such Scholarships within six years from the Matriculation. The following is the course prescribed for Examination:—

**JURISPRUDENCE AND CIVIL LAW.**

The same as the course in these subjects for the third year's Scholarship.

**PRINCIPLES OF CONSTITUTIONAL AND INTERNATIONAL LAW.**

Dacey: The Law of the Constitution.

Mill: Representative Government.

Bagehot: English Constitution.

Laurence: Handbook of Public International Law.

**ENGLISH LAW.**

All the business of the preceding Sessions, together with

Smith's Leading Cases in Law.

White and Tudor's Leading Cases in Equity, vol. 2

Best on Evidence.

Archbald's Consolidated Criminal Statutes.

\* See foot note, page 15.

The Senior Scholar will be required to attend, during his year of office, Courses of Lectures on Evidence and Pleading, and on Colonial and Constitutional Law.

#### PRIVILEGES OF LAW STUDENTS.

Students intending to proceed for the Certificate of the Law Professors, so as to entitle them to serve an apprenticeship of *four* years instead of *five*, under the provisions of the Attorneys and Solicitors (Ireland) Act, 1886, are required to enter their names with the Registrar, *either as Matriculated or Non-Matriculated* Students, and pay the necessary College and Class Fees to the Bursar before the commencement of the Law Lectures in each Session.

Such Students are required to attend all the Lectures and pass all the Examinations prescribed for the first and second years of the course of study for candidates for the Diploma of Elementary Law.

#### EXTRACT.—29 & 30 Victoria, cap. 84.

Every person who, as a Matriculated or as a Non-Matriculated Student of the University of Dublin or of any of the Queen's Colleges in Ireland, shall have attended or shall attend any prescribed Lectures, and shall have passed or shall pass any prescribed Examinations of the Professors of the Faculty of Law in the said University of Dublin or in any of the said Queen's Colleges, for a period of Two Collegiate Years, and who shall have duly served as an Apprentice under Indentures for the term of four years, in like manner as by this Act provided respecting the service for the term of five years, shall at any time after the expiration of five years from the commencement of such attendance on Lectures, or of such period of service, which shall first happen, be qualified to be sworn and to be admitted as an Attorney or Solicitor respectively, according to the nature of his service, of the several and respective superior Courts of Law or Equity in Ireland, as fully and effectually to all intents and purposes as any person having been bound and having served five years is qualified to be sworn, and to be admitted or enrolled and registered an Attorney or Solicitor under or by virtue of this Act.

### FACULTY OF MEDICINE.

#### MATRICULATION.\*

The Matriculation Examination of this College is accepted by the General Medical Council.

The curriculum extends over at least four years, consisting of two periods of at least two years each.†

#### COURSE OF STUDY.

##### First period :—

Chemistry.  
 Practical Chemistry.  
 Botany with Herborizations for practical study, and Zoology.  
 Anatomy and Physiology.  
 Practical Anatomy.  
 Comparative Anatomy.  
 Practical Physiology.  
 Materia Medica and Pharmacy.

##### Second period :—

Anatomy and Physiology (*second course*).  
 Practical Anatomy (*second course*).  
 Theory and Practice of Surgery.  
 Obstetrics and Gynecology.  
 Theory and Practice of Medicine.  
 State Medicine { Medical Jurisprudence.  
                           { Hygiene.  
                           { Sanitary Engineering.  
 Pathology.

\* See page 10, Matriculation in Arts.

† The Regulations of Licensing Bodies whose requirements differ from the above curriculum may be learned on application to the Professors of the Faculty of Medicine.

## DAYS AND HOURS OF LECTURES.

Subjects.		Months.	Mon.	Tues.	Wed.	Thurs.	Friday.	Sat.
1st. Period.	French, . . . . .	VI.	10	.	10	.	10	.
	German, . . . . .	VI.	.	10	.	10	.	.
	Botany and Zoology, . . . . .	VI.	.	3	3	3	.	.
	Natural Philosophy, . . . . .	VI.	.	12	.	12	.	.
	Chemistry, . . . . .	VI.	12	.	12	.	12	12
	Anatomy and Physiology, . . . . .	VI.	9	9	9	9	9	.
	Practical Anatomy, . . . . .	VI.	1	1	1	1	1	.
	Practical Chemistry, . . . . .	III.	2	.	2	.	2	.
Materia Medica, . . . . .	VI.	.	2	.	2	.	2	
2nd Period.	Practical Anatomy, . . . . .	VI.	1	1	1	1	1	.
	Anatomy and Physiology, . . . . .	VI.	9	9	9	9	9	.
	Surgery, . . . . .	VI.	11	.	11	.	11	.
	Midwifery, . . . . .	VI.	2	.	2	.	2	.
	Medicine, . . . . .	VI.	.	2	.	2	.	2
	Medical Jurisprudence, . . . . .		12	.	12	.	12	.

Attendance on Lectures is strictly obligatory.

Opportunities for Hospital Instruction are afforded to Students in the County Infirmary and Town Hospitals, which are in the immediate vicinity of the College. Clinical Lectures are given on Tuesdays and Fridays, and Practical Instruction on the other days of the week, at 10, A.M. All communications respecting Hospital attendance, Certificates, and Fees, should be addressed to the Secretary of the Clinical Board.

The Lectures of the Professors in the Medical School of Queen's College, Galway, and the Clinical instruction in the Galway Hospitals, are recognised as qualifying for the diplomas of the Royal College of Physicians and Surgeons of Ireland, England, and Scotland, and for the Medical Degrees of the University of London, and the Royal University of Ireland.

### REGULATIONS RESPECTING MEDICAL SCHOLARSHIPS AND EXHIBITIONS.\*

#### JUNIOR SCHOLARSHIPS.

Two are tenable by Students of the First Year.

Two " " Second "

Two " " Third "

Two " " Fourth "

#### FIRST YEAR SCHOLARSHIPS.

For one Scholarship the course is the same as that prescribed for the Literary Scholarships of the first year; for the other Scholarship the course is the same as that prescribed for Science Scholarships of the first year, in the Faculty of Arts.†

A Student to whom a Scholarship or Exhibition of the first year has been awarded, shall attend the following courses:—‡

Anatomy.  
Chemistry.  
Natural History.  
French or German.  
Natural Philosophy.

\* For conditions of tenure, see pages 7 and 8.

† See pages 13 and 14.

‡ Students of the First Year shall be exempt from attendance on Lectures in French, German, Physics, who shall produce certificates of having passed an University Examination, or of having attended Courses of Lectures in any Institution recognized by the Council of the College, on these subjects.

## SECOND YEAR'S SCHOLARSHIPS.

A Student in order to compete for a Scholarship of the second year must have matriculated, and must be of one year's standing, and not more.

## SUBJECTS OF EXAMINATION.

When entering his name with the Bursar the Candidate shall declare the subjects which he selects for examination.

## PRACTICAL ANATOMY—Maximum mark, 1,000.

Osteology and Arthrology, also the Myology of the limbs.

Candidates may be examined on specimens placed before them.

## CHEMISTRY—Maximum mark, 1,000.

General Principles of Chemical Philosophy; Laws of Combination by weight and volume; Atomic Theory; Nature of Salts, &c.; Chemistry of non-metallic bodies; Chemistry of Metals; Organic Chemistry.

## NATURAL HISTORY—Maximum mark, 1,000.

Vertebrata and Invertebrata.

Structural and Physiological Botany; Principles of Classification; Characters of the more common Natural Orders.

## NATURAL PHILOSOPHY—500.

Elements of Mechanics, Hydrostatics, Pneumatics, Acoustics, Optics, Heat, Electricity, and Magnetism, treated principally from an experimental point of view.

And either of the following—

## FRENCH—500.\*

Montesquieu—*Considérations sur la grandeur des Romains*, X. to XX.  
Translation from English into French.

Racine—*Andromaque*.  
French Grammar.

## GERMAN—500.\*

Schiller—*Jungfrau von Orleans*, Acts I., II.

German Grammar, up to the syntax.

Hauff—*Das Bild des Kaisers*.

No mark under one-fifth of the maximum shall be taken into account in any subject.

Scholars or Exhibitioners of the second year shall attend the following courses :—

Anatomy and Physiology.  
Practical Chemistry.  
Practical Anatomy.  
Materia Medica.

## THIRD YEAR'S SCHOLARSHIPS.

In order to compete for a Scholarship of the third year, a Student must—

(a) Have matriculated.

(b) Be of two years standing and not more.

(c) Have attended in this, or some Medical School recognised by the College Council, Courses of Lectures in at least four of the following subjects :—

Anatomy and Physiology.  
Chemistry.  
Botany.  
Zoology.

Practical Chemistry.  
Practical Anatomy.  
Materia Medica.

\* The candidate may select either French or German.

## SUBJECTS OF EXAMINATION.

ANATOMY AND PHYSIOLOGY—Maximum mark, 1,000.

Organs and Functions of Digestion, Absorption, Circulation, Respiration, and Urination, together with the Blood and its Elaboration. The examination will include practical work.

PRACTICAL ANATOMY—Maximum mark, 1,000.

Joints, Muscles, Vessels, Viscera, and Brain.

During the Examination, Candidates may be called on to make dissections, or to describe structures placed before them.

MATERIA MEDICA AND THERAPEUTICS—Maximum mark, 1,000.

The Medicines and Compounds in the British Pharmacopœia. Candidates will be required to identify specimens.

PRACTICAL CHEMISTRY—Maximum mark, 1,000.

As taught in the class.

No mark under 300 shall be taken into account in any subject.

A Student to whom a third year's Scholarship has been awarded shall attend, during the year of his election, four at least of the following courses :—

Anatomy and Physiology.

Practical Anatomy.

Theory and Practice of Surgery.

Midwifery and Diseases of Women;

Theory and Practice of Medicine.

Medical Jurisprudence.

## FOURTH YEAR'S SCHOLARSHIPS.

In order to compete for a Scholarship of the fourth year, a student must have—

(a) Have matriculated.

(b) Be of three years standing and not more.

(c) Have attended in this, or some school recognised by the College Council, all the Professional Courses of the First Period, and three at least of the Second Period (see page 20).

## SUBJECTS OF EXAMINATION.

ANATOMY AND PHYSIOLOGY—Maximum mark, 1,000.

The whole of Physiology, Histology, and Development.

And any three of the following in which he has attended Lectures :—

MATERIA MEDICA AND THERAPEUTICS.—1,000.

The entire of the course gone over in the Materia Medica Lectures, with the Physiological action and Therapeutical effects of the following substances :—Iron, Mercury, Iodine, Arsenic, Aconite, Opium, Digitalis, Alcohol, Nux Vomica, Cinchona. Candidates will be required to write prescriptions.

MEDICAL JURISPRUDENCE—1,000.

Abortion ; Wounds ; Hanging ; the Principal Poisons ;

## THEORY AND PRACTICE OF MEDICINE—1,000.

General Diseases ; Diseases of the Nervous system.

## THEORY AND PRACTICE OF SURGERY—1,000.

Diseases of Joints ; Wounds.

## OBSTETRICS AND GYNECOLOGY—1,000.

Difficult Labour ; Obstetric operations during Pregnancy ; Menstruation.

No mark under 300 shall be taken into account in any subject. When entering his name with the Bursar the Candidate shall declare the subjects which he selects for Examination.

Scholars of the fourth year shall attend during the year of their election two at least of the following courses, viz., Medicine, Surgery, Obstetrics, Medical Jurisprudence.

## SCHOOL OF CIVIL ENGINEERING.

## MATRICULATION.

## SUBJECTS OF EXAMINATION.

## MATHEMATICS.

## Arithmetic :—

Including Vulgar and Decimal Fractions, the Rule of Three, Simple Interest, and the Extraction of the Square Root.

## Algebra :—

Including Fractions, Proportion, and the Solution of Simple Equations.

## Geometry :—

Euclid, Books I., II., III., VI., with Definitions of Book V.

## HISTORY, GEOGRAPHY, AND THE ENGLISH LANGUAGE.

## History :—

Outlines of Ancient History.

## Geography :—

Outlines of Ancient and Modern Geography.

## English Language :—

English Grammar and Composition.

Students in the School of Engineering can obtain, in the Royal University of Ireland, and in the London University, the Degree of Bachelor in Engineering, Master in Engineering, or a Diploma in Engineering ; for the regulations regarding these, see Appendix.

## SUBJECTS OF INSTRUCTION.

## FIRST SESSION.

Mathematics (first course).

\*French or German.

\*Experimental Physics

Geometrical Drawing and Descriptive Architecture.

Office Work.

\* Students shall be exempt from attendance on Lectures in French, German, Physics, who shall produce Certificates of having passed an University Examination, or of having attended Courses of Lectures in any Institution recognized by the College Council, in these subjects.



## SECOND SESSION.

Mathematics (second course).  
 Mathematical Physics.  
 Chemistry.  
 Civil Engineering and Constructive Architecture.  
 Office Work and Field Work.  
 Geology and Physical Geography.

## THIRD SESSION.

Natural Philosophy (applied).  
 Civil and Mechanical Engineering.  
 Office Work and Field Work.

Attendance on these courses in all cases includes passing such Examinations as may be appointed by the College Council, as well as the catechetical parts of the courses of lectures.

Some relaxation of the order in which the subjects shall be studied will be admitted, on the recommendation of the Council.

## DAYS AND HOURS OF LECTURES.

Subjects.		Terms.	Mon.	Tues.	Wed.	Thurs.	Friday.	Sat.
1st Year	French, . . . . .	1, 2, 3,	10	.	10	.	10	.
	Experimental Physics, . . . . .	1, 2, 3,	.	12	.	12	.	12
	Mathematics (pass), . . . . .	1, 2, 3,	1	.	1	.	1	.
	Mathematics (honor), . . . . .	1, 2, 3,	.	1	.	1	.	.
	Geometrical Drawing, and Descriptive Architecture, . . . . .	1, 2, 3,	11	.	11	.	11	.
	Office Work, . . . . .	1, 2, 3,	2	.	2	.	2	.
2nd Year	Civil Engineering, . . . . .	1, 2, 3,	1	.	1	.	1	.
	Office Work and Field Work, . . . . .	1, 2, 3,	2	.	2	.	2	.
	Chemistry, . . . . .	1, 2, 3,	12	.	12	.	12	.
	Mathematical Physics . . . . .	1, 2, 3,	.	.	.	.	.	.
	Mathematics (honor), . . . . .	1, 2, 3,	2	.	2	.	2	.
	Mathematics (pass), . . . . .	1, 2, 3,	.	1	.	1	.	.
3rd Year	Geology and Physical Geo- graphy, . . . . .	1, 2, 3,	.	10	10	10	.	.
	Civil and Mechanical En- gineering, . . . . .	1, 2, 3,	12	.	12	.	12	.
	Office Work and Field Work, . . . . .	1, 2, 3,	2	.	2	.	2	.
	Natural Philosophy (applied), . . . . .	1, 2, 3,	.	1	.	1	.	.

## OUTLINE OF THE COURSE OF LECTURES ON CIVIL ENGINEERING.

## FIRST YEAR—SUBJECTS OF LECTURES.

Scales, Curves, Descriptive Geometry, Orthographic and Isometric Projections, Shadows, Perspective and Descriptive Architecture.

Text books—Miller's Descriptive Geometry, Heather's Descriptive Geometry, Engineer and Machinist's Drawing Book, Rickman's Architecture, Ferguson's History of Architecture, Stuart and Revett's Antiquities of Athens.

## SECOND YEAR—SUBJECTS OF LECTURES.

Instruments—Surveying, Levelling, Measurement of Earthwork, Constructive Architecture, Measurement of the Flow of Water.

Text books—Rankin's Civil Engineering, William's Geodesy, Cotton's Manual of Engineering, Rivington's Building Construction, Bidder's Tables, Sir John M. Neill's Tables, Downing's Hydraulics, Box's Hydraulics.

**THIRD YEAR—SUBJECTS OF LECTURES.**

Materials used in Construction, Stresses in Structures, Principles of Construction of Bridges, Roads, Tramways, Railways, Roofs, Canals, Sewerage Works, Harbours, Arterial and Thorough Drainage, Waterworks, Locomotive and Pumping Engines

Text books—Fairbairn's History of the Manufacture of Iron, Reid on Portland Cement, Rankin's Civil Engineering, Stoney on Strains, Jenkins on Bridges, Humber on Bridges, Latham on Sewerage Works, Humber on Waterworks, Downing's Hydraulics, Box's Hydraulics, Vernon Harcourt on Harbours, Vernon Harcourt on Canals and Rivers, Clark on Roads, Clark on Tramways, Clark on Locomotive Engines, Zeüner's Valve Gear, Minutes of the Proceedings of the Institution of Civil Engineers of London.

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The Students of each year are engaged during each term in preparing working drawings of Structures in Architecture and Engineering.

Students of the second and third years make Surveys and Sections in the field.

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**SCHOLARSHIPS.**

Two are tenable by Students of the First Year.

Two	"	"	Second "
One	"	"	Third "

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**SUBJECTS OF EXAMINATION.**

**FIRST YEAR'S SCHOLARSHIP.**

To compete for a Scholarship of the First Year a Student must have Matriculated.

The course is that prescribed for Science Scholarship of the first year in the Faculty of Arts.

For this course, see p. 14.

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**SECOND YEAR'S SCHOLARSHIP.**

In order to compete for a Scholarship of the Second Year a Student must have Matriculated, and be of one year's standing, and not more.

\* The course consists of the subjects of study prescribed for Students of the first year.

The subjects of Examination in French or German, and Experimental Physics, are the same as those prescribed for Medical Scholarships of the second year. See page 22.

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**THIRD YEAR'S SCHOLARSHIP.**

To compete for a Scholarship of the Third Year a Student must have Matriculated, and be of two year's standing, and not more.

The subjects of study prescribed for Students of the second year.

\* In Mathematics the course is that prescribed for the Science Scholarship of the second year in the Faculty of Arts.

## APPENDIX.

DEGREES IN THE ROYAL UNIVERSITY OF IRELAND AND IN THE  
UNIVERSITY OF LONDON.

## ROYAL UNIVERSITY OF IRELAND.

## EXTRACTS FROM REGULATIONS.

All Degrees, Honours, Exhibitions, Prizes, and Scholarships in this University, are open to Students of either sex.

The Examinations for Women will be held apart from those for Men, but upon the same days.

Candidates for any degree in this University must have passed the Matriculation examination. Students from other Universities and Colleges are included in this rule.

## MATICULATION.

This Examination shall be conducted not only in Dublin, but at certain local centres to be from time to time selected by the Senate. The Chancellor or Vice-Chancellor shall have power to grant a supplemental examination in Dublin, for such persons as shall be unable from reasonable cause to attend the ordinary Matriculation Examination, and shall have applied for such examination within one fortnight after the close of the ordinary examination.

Every candidate for Matriculation must send in to the Secretaries his (or her) name and address, and if a Matriculated Student of any other University or College a certificate of the date of such Matriculation and of his (or her) standing in such University or College, together with such other particulars as the Senate shall from time to time require, on or before the 15th day of August, immediately preceding the Matriculation Examination, and pay a fee of 10s.

Candidates at this Examination will be required to answer in the following subjects:—

- I. Latin.
- II. Any one of the following languages:— Greek, French, German, Italian, Spanish, Celtic, Sanskrit, Hebrew, or Arabic.
- III. English language.
- IV. Elementary Mathematics.
- V. Experimental Physics.

The following are the particulars of the foregoing subjects of Examination. (See Regulations of the Royal University.)

## DEGREES IN ARTS.

## B.A. DEGREE.

The course for this degree shall be one of at least three years duration.

All candidates for the degree shall be required to pass the following Examinations:—

- The Matriculation Examination.
- The First University Examination.
- The Second University Examination in Arts.
- The Degree Examination.

*The First University Examination.*

Students shall be admitted to this examination after the lapse of one Academical year from the time of their Matriculation.

Candidates must give notice, in writing, to the Secretaries of their intention to present themselves, and must pay the prescribed fee of £1 at least one month previous to the examination.

Candidates at this Examination will be required to answer in the following subjects:—

- I. Latin.
- II. Any one of the following languages:—Greek, French, German, Italian, Spanish, Celtic, Sanskrit, Hebrew, or Arabic.
- III. English Language and Literature.
- IV. Mathematics.
- V. Experimental Physics.

The following are the particulars of the foregoing subjects of Examination. (See Regulations of the Royal University.)

*The Second University Examination in Arts.*

Students shall be admitted to this examination after the lapse of one Academical year from the time of passing the First University Examination.

Candidates must give notice in writing to the Secretaries of their intention to present themselves, and must pay the prescribed fee of £1 at least one month previous to the examination.

The subjects of this Examination shall be the following:—

- I. Latin.
- II. Greek.
- III. English Language and Literature.
- IV. Any one of the following Languages:—French, German, Italian, Spanish, Celtic, Sanskrit, Hebrew, or Arabic.
- V. Logic.
- VI. Mathematics.
- VII. Mathematical Physics.
- VIII. Experimental Physics.
- IX. Chemistry.
- X. Biology (including Physiology, Botany, and Zoology).
- XI. Geology (including Mineralogy, and Physical Geography).

N.B.—Candidates at this Examination will be permitted, at their option, to answer in either of the following groups of subjects:—

- (1.) Latin, Greek, English, and two other of the above subjects, one of which must be either Logic or Mathematics.
- (2.) Mathematics, Mathematical Physics, and two other of the above subjects.

The following are the particulars of the foregoing subjects of Examination. (See Regulations of the Royal University.)

*The Examination for the Degree of B.A.*

Students shall be admitted to this examination after the lapse of one Academical year from the time of passing the Second University Examination in Arts.

Candidates must give notice in writing to the Secretaries of their intention to present themselves, and must pay the prescribed fee of £1 at least one month previous to the examination.

*Pass.*—The subjects for this examination for Pass are :—

- I. Latin.
- II. Greek.
- III. English, and any one of the following languages :—French, German, Italian, Spanish, Celtic, Sanskrit, Hebrew, or Arabic.
- IV. Logic, and either Metaphysics, Ethics, or Political Economy.
- V. Mathematics.
- VI. Mathematical Physics.
- VII. Experimental Physics.
- VIII. Chemistry.
- IX. Biology (including Physiology, Zoology, and Botany).
- X. Geology (including Mineralogy, and Physical Geography).

N.B.—Candidates for this Examination will be permitted, at their option, to answer in either of the following groups of subjects :—

- (A.) Latin, Greek, and any one other of the above subjects.
- (B.) Latin, Logic, Metaphysics, with History of Philosophy, and either Ethics or Political Economy.
- (C.) Mathematics, and two other of the above subjects, one of which must be one of those enumerated under heads VI. to X.

*Honours.*—Candidates may obtain the degree of B.A. by passing the Honour Examination in any one of the following courses, without having passed the ordinary degree examination.

- I. Latin and Greek Languages and Literature.
- II. English and any two of the following Languages :—French, German, Italian, Spanish, Celtic, Sanskrit, Hebrew, or Arabic.
- III. Logic, Metaphysics, Ethics, and History of Philosophy.
- IV. Civil and Constitutional History, Political Economy, and General Jurisprudence.
- V. Mathematics and Mathematical Physics.
- VI. Experimental Physics and Chemistry.
- VII. Biology and Geology.

Any Candidate selecting course No. III., will be at liberty to substitute for *Ethics* any one of the three subjects included in course No. IV.

The following are the particulars of the foregoing subjects of Examination. (See Regulations of the Royal University.)

#### *Examination for the Degree of M.A.*

Candidates may present themselves for the Examination for this Degree after the lapse of one Academical year from the time of obtaining the degree of B.A.

Candidates must give notice in writing to the Secretaries of their intention to present themselves, and must pay the prescribed fee of £2, at least one month previous to the Examination.

Candidates at this Examination shall be required to answer in any one of the following courses :—

- I. Latin and Greek Languages and Literature.
- II. English and any two of the following languages :—French, German, Italian, Spanish, Celtic, Sanskrit, Hebrew, or Arabic.
- III. Logic, Metaphysics, Ethics, and History of Philosophy.
- IV. Civil and Constitutional History, Political Economy, and Political Philosophy.
- V. Mathematics and Mathematical Physics.
- VI. Experimental Physics and Chemistry.
- VII. Biology and Geology.

Provided that any Candidate selecting course No. III. shall be at liberty to substitute for *Ethics* any one of the three subjects included in course No. IV.

The following are the particulars of the foregoing subjects of Examination. (See Regulations of the Royal University.)

## SCHOOL OF CIVIL ENGINEERING.

## B.E. DEGREE.

The course for this degree shall be one of at least three years' duration.

All candidates for the Degree shall be required to pass the following examinations :—

- The Matriculation Examination.
- The First University Examination.
- The First Professional Examination.
- The Second Professional Examination.
- The Degree Examination.

*The First Professional Examination.*

Students shall be admitted to this Examination after the lapse of one Academical year from the time of their matriculation. Candidates may pass this Examination at the same time as the First University Examination.

Candidates must give notice in writing to the Secretaries of their intention to present themselves, and must pay the prescribed fee of £1, at least one month previous to the Examination.

Candidates at this Examination shall be required to answer in the following subjects :—

- I. Mathematics.
- II. Mathematical Physics.
- III. Experimental Physics.
- IV. Drawing.
- V. Descriptive Architecture.

The following are the particulars of the foregoing subjects of Examination. (See Regulations of the Royal University.)

*The Second Professional Examination.*

Students shall be admitted to this Examination after the lapse of one Academical year from the time of passing the First Professional Examination.

Candidates must give notice in writing to the Secretaries of their intention to present themselves, and must pay the prescribed fee of £1, at least one month previous to the Examination.

Candidates at this Examination shall be required to answer in the following subjects :—

- I. Mathematics.
- II. Mathematical Physics.
- III. Chemistry.
- IV. Geology, including Physical Geography.
- V. Practical Engineering.

The following are the particulars of the foregoing subjects of Examination. (See Regulations of the Royal University.)

*The Examination for the Degree of B.E.*

Students shall be admitted to this Examination after the lapse of one Academical year from the time of passing the Second Professional Examination.

Candidates must give notice in writing to the Secretaries of their intention to present themselves, and must pay the prescribed fee of £3, at least one month previous to the Examination.

Candidates at this Examination shall be required to answer in the following subjects:—

- I. Mathematical Physics.
- II. Civil Engineering.
- III. Drawing.

The following are the particulars of the foregoing subjects of Examination. (See Regulations of the Royal University.)

*Diploma in Engineering.*

A Diploma in Engineering may be granted to any candidate who, without having passed the Matriculation and First University Examinations, passes the two Professional Examinations and the Degree Examination.

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**M.E. DEGREE.**

Candidates may present themselves for the examination for this degree after the lapse of one Academical year from the time of obtaining the degree of B.E., and shall be required to furnish evidence of having spent one year at least under an engineer in practice after obtaining that degree.

Candidates must give notice, in writing, to the Secretaries of their intention to present themselves, and must pay the prescribed fee of £3, at least one month previous to the Examination.

Candidates at this Examination shall be required to answer in a more extended course of the subjects fixed for the B.E. Degree Examination.

REGULATIONS  
CONCERNING THE  
EXAMINATIONS IN THE FACULTY OF MEDICINE  
FOR 1887.

(*Reprinted from the University Calendar.*)

GENERAL REGULATIONS.

All Degrees, Honours, Exhibitions, Prizes, and Scholarships in this University are open to students of either sex.

The Examinations for Women will be held apart from those for Men, but upon the same days.

Candidates for any degree in this University must have passed the Matriculation Examination. Students from other Universities and Colleges are included in this rule.

All students of the Queen's University at the time of its dissolution (3rd February, 1882) are entitled to present themselves, for their then next examination only, in the Royal University in the respective Faculties according to their status in the Queen's University, and in the subjects prescribed by the curriculum of that University, and according to the regulations in force at the time of its dissolution; provided that they shall not be entitled to the honours, exhibitions, or prizes maintained by the funds of the Royal University. This provision extends to all persons who were Matriculated Students of the Royal University at the time of the dissolution of the Queen's University.

DEGREES, ETC.

The following Degrees, etc., are conferred by the University in this Faculty:—

<i>Medicine.</i>		
Bachelor of Medicine,	. .	M.B.
Doctor of Medicine,	. .	M.D.
<i>Surgery.</i>		
Master of Surgery,	. .	M.CH.
<i>Obstetrics.</i>		
Master of Obstetrics,	. .	M.A.O.
<i>In Sanitary Science,</i>	. .	A Special Diploma.

OF HONOURS, EXHIBITIONS, AND PRIZES.

The Senate may from time to time make such regulations as it shall deem fit for the holding of Honour Examinations, either together with or apart from any of the Examinations hereinafter mentioned, and, as the result of such examinations, may place upon the Honour lists such candidates as they consider deserving.

It shall be in the power of the Senate to withhold any Exhibition Prize, Scholarship, etc., which shall have been competed for by candidates at an Examination, if, upon receiving the report of the Examiners, there shall appear to be a deficiency of merit in the answering.



No student who, previous to Matriculating in this University, was or had been, a student of any other University, shall be eligible to be awarded any of the Exhibitions or other Prizes of this University, save in some Collegiate Grade not lower than that which such student shall hold, or shall have held, in such other University. And for the purposes of this Regulation, the standing of such student shall be taken into account as of the first day of the Exhibition or other Prize Examination of this University at which such student is competing.

No Student holding any Exhibition, Scholarship, Fellowship, or other similar Prize in any other University, or in any College attached to a University, or in any College endowed with public money, can hold any of the Exhibitions, Scholarships, Fellowships, or other Prizes in the Royal University, without taking into account the value of such other Exhibition, Scholarship, Fellowship, or other similar Prize.

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#### EXAMINATIONS.

1. All forms of application for admission to the examinations of the University must be filled up by the Candidates themselves.

2. From the time of the commencement of each portion of the examination, all persons, save members of the Senate, the Officers of the University, and the Candidates actually engaged, will be excluded from the Examination Room; and all communications on the part of the candidates, either among themselves, or with any other persons, is forbidden.

3. No Candidate shall aid, or attempt to aid, another Candidate; or obtain or attempt to obtain assistance from another; or communicate in any way with any other Candidates in the examination room; or bring into the examination room, or have in his possession while in such room, any books, notes, or paper whatsoever (save such Answer Books as shall be supplied by the University), or anything else which can in any way be of assistance to him in the work of the examination. Any Student found violating this rule shall be expelled from the Examination Hall, and his name shall be erased from the list of Candidates at that Examination.

4. Any Candidate who, at a Practical Examination, addresses any inquiry on the matter of the Examination to any Superintendent or Laboratory Porter shall become thereby disqualified at such Examination.

5. Candidates are bound in all matters relative to the examination to submit to the direction of the Secretaries, or other officer in charge.

6. If any Candidate shall be adjudged by the Standing Committee of the University to have violated any of the rules concerning examinations, or in any other way to have acted improperly, the Committee has power to deprive him of marks in the subject or subjects in reference to which the offence has been committed, or even to deprive him of his Examination altogether, according to the judgment the Committee may form of the gravity of the offence, and also to publish his name as having been deprived of his Examination for having violated the rules.

7. The Examiners are directed to report to the Senate all cases in which they suspect that copying has taken place.

8. Candidates are forbidden to apply to Examiners for information, either as to the best mode of preparing for the Examinations or as to the manner in which they have answered at the Examinations, or as to the relative value assigned to the several portions of the Examination, or any other details connected with the Examinations.

## TIMES OF THE EXAMINATIONS.

The Medical Examinations will be held twice yearly, viz. : towards the end of April, and in October. The precise dates will be subsequently announced. The First Examination in Medicine will, however, be held in July instead of in the Spring. Candidates failing to pass at either of these Examinations will be allowed to present themselves again at the corresponding next succeeding Examination.

There will be an Honour Examination in connexion with each of these Medical Examinations ; and one First Class Exhibition, and one Second Class Exhibition, out of the number already assigned to the several Medical Examinations respectively, may be awarded at the April (or July) Examination ; while the residue of such Exhibitions may be awarded at the October Examinations. (See pages 17, 18.)

The days on which each Examination will be held will be set out in a Time Table, to be issued shortly before the beginning of each period of Examination.

## MARKS AT THE DIFFERENT EXAMINATIONS.

The relative values assigned to the different subjects at the several Examinations in the Faculty of Medicine to be held in the year 1886 will be as set out in the following Schedule :—

At the First Examination in Medicine :—

Zoology.	. . . . .	100 Marks.
Botany,	. . . . .	100 "
A Modern Language	. . . . .	100 "
Physics (when it forms a subject of the Examination)	. . . . .	50 "

At the second Examination in Medicine :—

Anatomy,	. . . . .	100 Marks.
Physiology,	. . . . .	100 "
Chemistry,	. . . . .	100 "
Materia Medica,	. . . . .	80 "

At the Examination for the Degree of M.B. :—

Medicine,	. . . . .	100 marks.
Surgery,	. . . . .	100 "
Midwifery, &c.,	. . . . .	100 "
Anatomy,	. . . . .	100 "
Physiology,	. . . . .	100 "
Medical Jurisprudence,	. . . . .	50 "

50 *per cent.* of the maximum number of marks assigned to each subject will be the general *Pass Standard*. The case of a Candidate who falls a little short of this standard will be specially considered by the Board of Examiners.

## COURSES FOR DEGREES IN MEDICINE, &amp;c.

The course for these degrees is of at least four years duration.

Students who have commenced their medical studies since January 1st, 1884, must furnish evidence of having been registered by the Medical Council, as Students in Medicine for at least 45 months, before being admitted to the final examination for M.B.

No one can be admitted to a Degree in Medicine who is not fully twenty-one years of age.

All Candidates for these degrees are, in addition to attending the lectures and complying with the other conditions to be from time to time prescribed, required to pass the following examinations :—

- The Matriculation Examination (*see* other pamphlet).
- The First University Examination (*see* other pamphlet).
- The First Examination in Medicine.
- The Second Examination in Medicine.
- The Degree Examination.

A Medical Student from one of the Queen's Colleges, the Queen's University, or any other institution approved by the Senate, matriculated therein before the 1st October, 1881, who has completed at least one year of the Medical Curriculum in any of said Colleges, or in said University or institution shall be entitled to credit for a year's course in this University without passing the First Examination in Arts.

The course of Medical studies shall extend over at least four years, and shall be divided into Periods of at least two years each, during which Periods the Students shall attend such courses of lectures and hospital instruction, and comply with such other conditions as the Senate shall from time to time order.

No Certificates of Medical Instruction, either in connection with Lectures or Hospitals, can be received, unless issued by an Institution which has been formally recognised by the Senate.

Until further order—

The first period will comprise attendance on the following courses of Medical Lectures :—

- Botany.
- Zoology.
- \*Chemistry, one course of at least six months.
- \*Practical Chemistry, a course of at least three months' work in a chemical laboratory.
- \*Anatomy.
- \*Practical Anatomy.
- \*Physiology including Histology
- Materia Medica.

The second period will comprise attendance on the following courses of Medical Lectures :—

- \*Anatomy.
- \*Practical Anatomy.
- \*Physiology, including Practical Physiology and Histology.
- Midwifery and Diseases of Women, a six months' course.†
- Theory and Practice of Medicine.
- Surgery.
- Mental Diseases.
- Medical Jurisprudence.

Candidates are further required to have attended during the First Period—

A *Medico-Chirurgical Hospital* (recognised by the Senate) containing at least sixty beds; together with the Clinical Lectures therein delivered, at least two each week, during a Winter Session of six months.

\* These courses must be attended in an Institution provided with the appliances required for the performance by the Students of proper Experimental Courses in Practical Chemistry, Practical Anatomy, and Practical Histology and Physiology (*see* below, page 44, No. 3).

† Instead of one course of six months in these subjects, Candidates may attend two separate courses of three months each, one on Midwifery, the other on Diseases of Women; such courses not to be simultaneous.

### And during the Second Period—

*A Medico-Chirurgical Hospital* (recognised by the Senate), containing at least sixty beds; together with the Clinical Lectures therein delivered, during eighteen months; including either three Winter Sessions of six months each, or two Winter Sessions of six months each and two Summer Sessions of three months each. The certificate of such Hospital Attendance must show that the Student has, during a period of three months, attended either a Fever Hospital of repute, or the Fever wards of a general hospital.

### *Practical Midwifery*.\*—The Candidate must also produce—

A certificate of having attended at a recognised Midwifery Hospital where Clinical Instruction in Midwifery and diseases of women and children is given, for a period of six months; or of having attended for six months at a Midwifery Dispensary where similar Clinical Instruction is given. The certificate in each case to state that the Candidate has attended at twenty Labours.

In addition to the above mentioned certificates of attendance at Hospitals, Candidates will be also required before presenting themselves for the Degree Examination to produce the following certificates:†

- (i.) A certificate of personal attendance on at least ten fever cases, such Certificate to be signed by the physician under whose superintendence the cases were attended (*see page 39*).
- (ii.) A certificate of having compounded medicine under a Licensed Apothecary or Pharmaceutical Chemist for at least three months.
- (iii.) A certificate of having received practical instruction in Vaccination, to be signed by a Public Vaccinator.
- (iv.) A certificate of having attended for three months in a recognised Lunatic Asylum where clinical instruction on mental diseases is given.

The Senate further recommend that students should avail themselves of opportunities of attendance on lectures on diseases of the Eye, Ear, and other special departments of medicine and surgery. All Candidates for the Degree of M.B. may be required to exhibit reasonable proficiency in the use of the Ophthalmoscope and Laryngoscope.

### *The First Examination in Medicine.*‡

Students shall be admitted to this Examination after the lapse of one Academical year from the time of their matriculation. Candidates may pass this Examination at the same time as the First University Examination.

Candidates must give notice, in writing, to the Secretaries, of their intention to present themselves, and must pay the prescribed fee of £1, at least one month previous to the examination, and must at the same time produce satisfactory evidence of having completed the prescribed courses of study in Zoology and Botany.

They must also produce their certificates of registration as Medical Students.

The subjects of this Examination are § :—

Zoology.

Botany.

A Modern Language (either French or German).

Candidates who have passed || in a Modern Language at the First University Examination in Arts, are exempt from again presenting this subject at the First Examination in Medicine, if they only seek to *pass* the Examination. But if they wish to qualify for admission to the

§ Candidates at the First Examination in Medicine will not be exempted from the Examination in Botany and Zoology, by reason of having passed in those subjects at any Examination in the Faculty of Arts subsequent to the year 1834.

Honour Examination and for an Exhibition, they must pass the Examination in a Modern Language, as well as in Botany and Zoology, the answering of the Candidates in the three subjects being taken into account in awarding Honours.

The Examination in either French or German will be, for Pass and Honours, respectively, as prescribed for the First University Examination.

The Examination in Zoology will consist of questions on the anatomy and classification of the vertebrate and invertebrate animals. Candidates are recommended to read—

Macalister's *Vertebrata and Invertebrata* (London Science Series);  
Packard's *Manual of Zoology*;  
Nicholson's *Manual of Zoology*;  
Mivart's *Common Frog, or Elementary Lessons in Anatomy*.

And for the higher portions of Zoology—

Huxley's *Manuals of the Anatomy of Vertebrate and Invertebrate Animals*;  
Claus's *Handbook of Zoology*;  
Gegenbaur's *Elements of Comparative Anatomy* (translated by Bell).

The Examination in Botany will comprise the general principles of the structure and classification of Plants. Candidates may use as textbooks Oliver's *Lessons in Elementary Botany*, Thome's *Structural and Physiological Botany*, and Vines' edition of Prantl's *Elementary Botany* (last edition). They will be expected to possess a practical acquaintance (that is, such a knowledge as can only be obtained by a study of the plants themselves), with the following natural orders, viz.: Ranunculaceæ, Cruciferae, Papaveraceæ, Fumariaceæ, Malvaceæ, Caryophyllaceæ, Leguminosæ, Rosaceæ, Valerianaceæ, Umbelliferae, Compositæ, Scrophularineæ, Solanææ, Boraginææ, Labiateæ, Euphorbiaceæ, Cupuliferae, Coniferae, Aroideæ, Orchideæ, Liliaceæ, Gramineæ, in addition to what they may learn from Oliver's *Lessons*, as to the structure of these and other orders described in Part II. of that work. Candidates will also bear in mind the necessity of being able to distinguish the orders named from the principal allied orders.

There will be an Oral Examination for all Candidates, at which they will be required to recognise and describe Botanical and Zoological specimens.

Practical work in Zoology and Botany will form part of the first Examination in Medicine for Honour Candidates.

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### *The Second Examination in Medicine.*

Students shall be admitted to this Examination after the lapse of one Academical year from the time of passing the First Examination in Medicine, provided they have completed the First Period of the Course of Medical studies.

Candidates must give notice, in writing to the Secretaries, of their intention to present themselves, and must pay the prescribed fee of £1, at least one month previous to the Examination, and must at the same time furnish evidence of having completed the course of study prescribed by the Senate for the First Period of the Course of Medical Studies.

The subjects for this Examination are—

Anatomy.  
Physiology.  
Chemistry.  
Materia Medica (Pharmacology).

At the Examination in Anatomy, Candidates will be required to show that they possess a good knowledge of the bones, joints, and muscles, and such knowledge of the larger vessels and nerves and of the viscera, as they may reasonably be supposed to have acquired during the First Period of Medical Study.

At the Examination in Physiology Candidates will be required to show that they have a good knowledge of Physiological Chemistry, and the Histology and Physiology of the tissues and organs,\* with the exception of embryology, the Histology and Physiology of the central nervous system and the organs of special sense, of voice, and of reproduction.

There will be a practical Examination in the Laboratory in Physiology and Histology, at which Candidates will be required to prepare and recognise microscopical specimens of animal tissues and organs, and to show their practical acquaintance with the more important apparatus employed in physiological research.

Candidates at the Second Examination in Medicine will not be exempt from the Examination in Chemistry, by reason of having passed in that subject at any Examination in the Faculty of Arts subsequent to the year 1885.

The following is the Course in Chemistry at this Examination:—

#### CHEMISTRY—*Pass.*

*Inorganic Chemistry*:—Chemical change. Analysis, synthesis, elements, compound radicles. Atomic Theory. Laws of combination by weight and volume. Atomic and molecular weight. Atomic heat of elements. Quantivalence of simple and compound radicles. Electro-positive and electro-negative bodies; electrolysis. Acids. Bases. Salts.

Preparation and properties of the non-metals and of their chief combinations with each other. The atmosphere:—Methods of analysis, determination of carbon dioxide and aqueous vapour.

Characters of the following metals and of their compounds with the more important acid radicles:—Sodium, Potassium, Silver, Barium, Strontium, Calcium, Aluminium, Magnesium, Zinc, Cadmium, Lead, Mercury, Bismuth, Copper, Platinum, Arsenic, Tin, Antimony, Iron, Manganese, Chromium.

*Organic Chemistry*:—Valency of compound radicles; saturated and non-saturated compounds. Isomerism, metamerism, polymerism; Determination of vapour density; estimation of Carbon, Hydrogen, Oxygen, Nitrogen, Sulphur.

Alcohols, Ethers, Aldehydes, Acids, Amines, and Amides of the Homologous series  $C_n H_{2n+2}$  up to and including Amyl hydride. Chloral, chloroform, iodoform.

Olefines:—Ethylene, Propylene, Butylene, Amylene, and their derivatives, particularly Glycol, Glycollic acid, Lactic acid, Oxalic acid and Succinic acid. Malic, tartaric, citric, and tannic acids.

Allylic alcohol and its chief derivatives. Glycerine and its derivatives. Constitution of fats and oils.

Aromatic group:—Benzene, Toluene, Phenol, Benzoic acid, Hippuric acid, Salicylic acid, Nitrobenzene Aniline. Cyanogen and its chief compound; Urea, uric acid. Carbo-hydrates:—Cane-sugar, grape-sugar, starch, cellulose. Vegeto-alkaloids:—Quinia, morphia, strychnia. Albuminous substances:—Albumen, casein, gluten.

*Practical*.—The Practical Examination in the Laboratory will be the Qualitative Analysis of Mixtures or Compounds containing not more than three of the metals mentioned above and two acids. The acids may include the following Organic acids: Hydrocyanic, Oxalic, Acetic, Tartaric, and Uric.

#### CHEMISTRY—*Honours.*

The Honour Examination will include the same subjects as the Pass Examination; but will be of a more minute and searching character.

*Practical*.—Qualitative Analysis, as at the Pass Examination; together with the analysis of specimens of Urine.

\* This will include:—Development of tissue; the physiology of muscle, nerve-fibres, and nerve-cells (but not of the brain and spinal cord); also, the physiology of blood, lymph (including lymphoid organs), digestion, circulation, respiration, animal heat, secretion, and excretion (including the functions of the skin and kidneys).

*The Examination for the Degree of M.B.*

Students shall be admitted to this Examination after the lapse of one Academical year from the time of passing the Second Examination in Medicine, provided they have completed the Second Period of the Course of Medical Studies.

Medical Students, matriculated prior to October, 1883, who pass the Second Examination in Medicine in the Autumn, will be permitted (if otherwise qualified) to present themselves for the examination for the Degree of M.B. at the Spring Examinations immediately following.

Candidates must give notice in writing to the Secretaries, of their intention to present themselves, and must pay the prescribed fee of £3, at least one month previous to the Examination, and must at the same time furnish evidence of having completed the course of studies prescribed by the Senate for the Second Period of the Course of Medical Studies.

Students who have commenced their medical studies since January 1st, 1884, must produce a certificate of having been *Registered* as Students in Medicine, by the Medical Council for a period of at least 45 months; and no one can be admitted to a Medical Degree who is not fully twenty-one years of age.

The subjects for this Examination are :—

Anatomy, including Practical Anatomy.  
 Physiology, including Practical Physiology and Histology.  
 Theory and Practice of Medicine.  
 Mental Diseases.  
 Therapeutics.  
 Pathology.  
 Surgery.  
 Midwifery; Diseases of Women and Children; Vaccination.  
 Medical Jurisprudence.  
 Hygiene.

Candidates for this Degree are reminded that they must produce a certificate of having during a period of *three months*\* attended a fever hospital of repute, or the fever wards of a general hospital receiving fever patients.

They must further produce a certificate of having had personal charge of at least *ten* fever cases. The certificate must state the name of the patient, and the character of the disease, and must be signed by a Hospital Physician, or the Medical Officer of a Dispensary District, under whose superintendence the cases were attended.†

They must also produce a Certificate of having received practical instruction in Vaccination, and of being qualified to perform the operation satisfactorily. This Certificate must be signed by a Public Vaccinator.‡

Candidates for the Degree of M.B. will be permitted to present, as satisfying the requirement of a six months course in Midwifery, etc., two separate Certificates of three months each, one for attendance on a course of lectures on Midwifery, the other for attendance on a course of lectures on Diseases of Women and Children; such Certificates not to be simultaneous.

• But no Certificate of attendance at instruction in Midwifery, etc. either theoretical or practical, will henceforward be received, where such attendance has taken place prior to the commencement of the third year of Medical Studies.‡

\* This attendance of three months at a Fever Hospital may take place in any three consecutive months. If it takes place during a regular Winter or Summer Session, it may be reckoned as a portion of the prescribed total hospital attendance of twenty-four months.

† Printed Forms for these Certificates can be had on application to the Secretaries.

‡ This Rule will not be enforced where the attendance at such instruction has actually taken place prior to 1886.

The Certificate of having compounded Medicine for at least three months, under an Apothecary or Pharmaceutical Chemist, can be issued only by an Apothecary or Chemist directing a public establishment for the general compounding and sale of Medicines, in a large town,\* or by the Apothecary of a large General Hospital recognised by the University. Such Apothecary must be a licensed Apothecary, and such Chemist must be recognised by the Pharmaceutical Society. Certificates of instruction in Pharmacy, in connection with Dispensaries will not be deemed satisfactory.

At the Examination for the M.B. Degree, Candidates will be expected to show that they have perfected their knowledge of the branches of Anatomy prescribed for the Second University Examination in Medicine, and also of the whole nervous system and the organs of sense.

In Physiology, Candidates will be required to show that they possess a good knowledge of the entire course of Physiology; especially of the portions not prescribed at the Second Examination in Medicine.† The Examination will include practical work in the Laboratory, both in Physiology and Histology, including the recognition and preparation of microscopical specimens of animal tissues and organs, &c. They will also be required to show their practical acquaintance with the more important apparatus employed in physiological research.

Candidates for the Degree of M.B., may be required to exhibit reasonable proficiency in the use of the Ophthalmoscope and Laryngoscope.

#### M.D. DEGREE.

Candidates may be admitted to this Degree after the lapse of two Academical years from the time of obtaining the Degree of M.B. Provided, however, that all persons who were Students in Medicine in the Queen's University at the date of its dissolution shall be entitled, if they so desire, to obtain the Degree of M.D., instead of the Degree of M.B. upon passing the examination herein prescribed for the M.B. Degree.

Candidates must give notice, in writing, to the Secretaries of their intention to present themselves, and must pay the prescribed fee of £5, at least one month previous to the Examination, and must at the same time produce a certificate of having been, for at least two years, engaged in Hospital or Private Medical or Surgical Practice, or in the Military or Navy Medical Service.

Every Candidate will be examined at the bedside, and required to diagnose at least six cases, medical and surgical, and prescribe treatment, and to write detailed reports on at least two cases to be selected by the Examiners, and to discuss all the questions arising thereon.

Every Candidate shall submit to the Medical Examiners, for their approval, a Thesis certified by him (or her) to have been composed by himself (or herself). No Thesis shall be approved which does not contain some original or personal observations in practical Medicine, Surgery, Midwifery, or in some of the Sciences embraced in the Curriculum, or else a full digest and critical exposition of the opinions and researches of others on the subject selected by the Candidate, accompanied by precise references to the publications quoted.

\* The Senate have defined that by the term "large town" is to be understood a town of about 10,000 inhabitants.

† This will include the Histology and Physiology of the central nervous system and the organs of special sense, of voice, reproduction, and embryology.



Persons holding the Degree of M.B. of this University who have been settled for a period of two years in the Colonies or Foreign Countries may, on satisfying the Senate to that effect, and in lieu of the Examination above required to be passed by persons residing in this country, upon furnishing papers on Medical subjects written by them, or official reports dealing with subjects of Medical Science, with evidence of the papers or reports being their own original composition, have the Degree conferred on them in absence.

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#### THE M.CH. DEGREE.

This Degree shall be conferred only on Graduates in Medicine of the University.

Candidates must give notice, in writing to the Secretaries of their intention to present themselves, and must pay the prescribed fee of £5 at least one month previous to the Examination.

Candidates may enter for this Examination when entering for the Examination for the M.B. Degree. But no one will be allowed to present himself for the Examination for the Degree of M.Ch., unless he has previously satisfied the Examiners at the M.B. Examination.

All Candidates for the degree of M.Ch. will be required to produce a Certificate of having attended a three months' course in Operative Surgery;\* they will also be required to pass a special written and practical examination.

The Examination for this Degree will comprise Surgical Anatomy and the Theory and Practice of Surgery, including Operative and Clinical Surgery.

#### THE MASTERSHIP IN OBSTETRICS.†

This Degree will be conferred only on Graduates in Medicine of the University.

Candidates must give notice in writing to the Secretaries of their intention to present themselves, and must pay the prescribed fee of £2 at least one month previous to the Examination.

Candidates may enter for this Examination when entering for the Examination for the M.B. Degree. But no one will be allowed to present himself for the Examination for the Degree of M.A.O. unless he has previously satisfied the Examiners at the M.B. Examination.

The Examination for this Degree will comprise the Theory and Practice of Midwifery and of Diseases of Women and Children, and the use of Obstetrical instruments and appliances.

Candidates for the Mastership in Obstetrics will be required to undergo a special written examination in Midwifery, Gynæcology, and Diseases of Children, in addition to the other tests.

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#### THE DIPLOMA IN SANITARY SCIENCE.

This Diploma will be conferred only on Graduates in Medicine of the University.

Candidates must give notice in writing to the Secretaries of their intention to present themselves, and must pay the prescribed fee of £2 at least one month previous to the Examination.

The Examination will include the following subjects :—

Physics;  
 Climatology;  
 Chemistry;  
 Geology;  
 Sanitary Engineering;  
 Hygiene, Sanitary Law, and Vital Statistics.

[N.B.—It is to be observed that the books named within brackets in connexion with some of the branches of the following courses are not specially recommended by the Senate, but are mentioned only as sources of information, and to indicate approximately *the amount of matter* required for the Examination. But the Examination will not necessarily be confined to them : nor is it implied that they are to be taken as invariably correct in their statements, or that the methods given in them are always the best.]

The following particulars will be embraced under the foregoing heads of Examination :—

*Physics.*—General Laws of Heat; Mechanics, Pneumatics, Hydrostatics, and Hydraulics. [Everett's Elementary Physics.]

*Climatology.*—A general knowledge of meteorological conditions; the reading and correction of instruments, and tabulating the results of meteorological observations. [Buchan's Handybook of Meteorology.]

*Chemistry.*—Constitution of the atmosphere. Pure and impure waters. Food and its adulteration. Poisonous substances used in manufactures, &c.

There will be a practical examination, both chemical and microscopical at which the Candidate must make at least Qualitative analyses. [Hassall on Adulteration.]

*Geology.*—The character and construction of rocks, with reference to water-supply and drainage.

*Sanitary Engineering.*—The construction of dwellings, barracks, hospitals, schools, factories, etc., in accordance with the principles of warming, ventilation, drainage, water-supply, etc. The examination will also include the reading of plans, sections, scales, etc., in connexion with buildings, sanitary constructions, etc.

These subjects will be distributed as follows :—

(a.) Drainage and Sewerage of Houses and Towns. [Latham's Sanitary Engineering.]

(b.) Supply of Water to Towns. [Rankine's Manual of Civil Engineering; Hughes on Supply of Water to Towns (Weale's Series). Much useful information will also be obtained in Humber's Treatise on Supply of Water to Towns.]

(c.) Warming and Ventilation of Dwellings, etc. [Parke's Practical Hygiene; Hood on Warming and Ventilation, latest Edition; Article on Ventilation, in Spon's Dictionary of Engineering.]

(d.) Reading of Plans, Scales of Drawings, etc. In this portion of the examination the candidate will be expected to be able to explain the meaning of the different parts of the drawing of a dwelling-house, etc., the plans of the different floors, the sections, and how they show the relations between different parts of the building; also to be able to take off dimensions by means of the scale of the drawing. [Winter's Geometrical Drawing, Part I.]

*Hygiene and Sanitary Law.*—The Candidate will be required to show that he possesses sufficient special knowledge to discharge the duties of Medical Officer of Health. He will be examined on the etiology of infective diseases, and their prophylaxis; the methods of dealing with epidemics at their several stages; the proper methods for the removal of filth; the sanitary condition of certain trades and avocations; diseases of animals, the flesh of which is used as human food, etc. Vital Statistics. The Public Health (Ireland) Act, 1878, sections 15 to 159. [Parkes' Practical Hygiene; Cameron's Manual of Hygiene; the Manual of Public Health for Ireland; Public Health (Ireland) Act, 1878].

Candidates will be required to draw up reports on the Sanitary condition of dwelling-houses, or other buildings, selected for the purpose.

N.B.—Proficiency in practical work and an adequate acquaintance with the instruments and methods of research which may be employed for Hygienic investigations are indispensable conditions of passing the Examinations.

## HONOURS.

There will be special Examinations for Honours in connexion with the—

- First Examination in Medicine.
- Second Examination in Medicine.
- Examination for the Degree of M.B.

The Examinations for Honours will be held subsequently to the corresponding Pass Examinations. Those Candidates only can be admitted to an Honour Examination whom the Examiners, upon a review of the results of their Pass Examination, consider likely to prove themselves qualified to obtain Honours, and accordingly recommend to be admitted to the Special Examination.

The answering of the several candidates at the Pass Examination will be taken into account in determining the class of Honours which shall be awarded to them, the Pass marks being for this purpose divided by two.

Practical work in the Laboratory, etc., where such a test is admissible, will form part of all Honour Examinations.

The Senate may also, where it sees fit, upon the recommendation of the Examiners, award Honours at the—

- Examination for the Degree of M.Ch.
- Examination for the Degree of M.A.O.

## EXHIBITIONS.\*

The following Exhibitions may be awarded annually by the Senate :—

- At the First Examination in Medicine, Two First Class at £30, and Two Second Class at £15.
- At the Second Examination in Medicine, Two First Class at £40, and Three Second Class at £20.
- At the M.B. Degree Examination, Two First Class at £50, and Three Second Class at £25.

Provided that an Exhibition shall not be awarded to any Candidate at the First Examination in Medicine if a longer interval than three Academical years shall have elapsed from the time of Matriculation ; or at the Second Examination in Medicine, if a longer interval than two Academical years shall have elapsed from the time of passing the First Examination in Medicine ; or at the M.B. Degree Examination if a longer interval than three Academical years shall have elapsed from the time of passing the First Examination in Medicine.

One first-class Exhibition, and one second-class Exhibition may be awarded at each of the three Examinations at the Spring or Summer Examination, respectively ; the residue may be similarly awarded at the October Examinations.

## DR. HENRY HUTCHINSON STEWART MEDICAL SCHOLARSHIPS.

[N.B.—As these Scholarships are payable out of a fund over which the Senate have no control, and which is liable to fluctuation, the Senate reserve to themselves the power of discontinuing the Scholarships, or payment of them, any year in which the requisite amount is not forthcoming, or of paying to the holders of these Scholarships, such quota of the full sum as the amount of the fund at the disposal of the Senate will in their judgment admit.]

These Scholarships have been lately founded under an order of the Court of Chancery, regulating the administration of certain educational

bequests of the late Dr. Henry Hutchinson Stewart, and the Senate have adopted the following Regulations with regard to them :—

1. One Scholarship, of the annual value of £10, tenable for three years, will be offered in the autumn of 1887 for competition in the subjects of the Second Examination in Medicine. In order to be eligible candidates must present themselves after the lapse of not more than one Academical year from the time of passing the First Examination in Medicine.

2. One Scholarship of the annual value of £50, tenable for three years, will be offered in the autumn of 1887 for competition among medical graduates of not more than two years' standing, for proficiency in the knowledge of Mental Diseases.

The subjects of the Examination for this latter Scholarship will include mental diseases; diseases of the brain and spinal cord; diseases of the nervous system; and a corresponding practical Physiological and Histological Examination, including the recognition of Pathological specimens and preparations illustrative of such diseases, and the preparation and mounting of similar specimens. There will be a practical examination of patients labouring under those diseases, and Candidates will be required to submit to the Examiner written reports on the cases thus examined. The Examination will occupy at least three days.

Candidates must give notice in writing to the Secretaries of their intention to present themselves, and must pay the prescribed fee of £5, at least one month previous to the day appointed for the Examination.

Each Medical Scholar elected for proficiency in the subject of the treatment of Mental Diseases, must, as the condition of holding such Scholarship, proceed (within six months from the date of his election to such Scholarship), to some recognised institution for the treatment of Mental Diseases, to be approved by the Senate, and there continue as either an out-door or resident pupil for a period of not less than six months.

Candidates who fail to win the Scholarship, but show in their Examination proficiency in the knowledge of Mental Diseases, may, upon the recommendation of the Examiners, be granted by the Senate special certificates setting out such proficiency.

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#### PRIZES.

A sum of £95 may be placed annually at the disposal of the Examiners in Medicine to be awarded in Prizes for superior answering in special subjects at their discretion.

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#### REGULATIONS AS TO THE RECEPTION OF CERTIFICATES FROM MEDICAL LECTURERS AND HOSPITALS.

The special professional studies may be carried on in any of the Schools recognised by the Senate, who will require the fulfilment of the following conditions in any School seeking recognition :

1. The furnishing of a list of the professors and teachers, with their respective qualifications; all changes from time to time in such list of teachers to be at once notified to the Senate.

2. The giving evidence that it possesses the necessary apparatus, diagrams, specimens, and accommodation requisite for the satisfactory and thorough teaching of the several subjects.

3. Evidence that it possesses properly-fitted rooms with appliances sufficient for the performance by the students of proper experimental

courses of (A) Practical Anatomy, (B) Practical Chemistry, and (C) Practical Histology and Physiology.

4. The possession of sufficiently large and accessible collections of specimens to illustrate the study of (a) *Materia Medica*, (b) *Anatomy*, and (c) *Surgical and Medical Pathology*.

5. The giving of a guarantee that no certificate of attendance shall be issued to any student which does not expressly state the absolute number of attendances at lecture of the individual student; no such certificate to be received by the Senate unless it show a *bona fide* attendance of two-thirds of the whole course. Each course of lectures must consist, at least, of three lectures delivered in each week of the session.

The Senate reserve to themselves the power of accepting certificates indicating a smaller number of attendances in exceptional cases.

6. In order to the fulfilment of the preceding condition the Senate will require of each School seeking recognition a guarantee that in each class a roll shall be kept, which shall be called at the commencement of each lecture, the presence or absence of each student being then thereon marked; such rolls to be open to the inspection of any person or persons whom the Senate may appoint for the purpose.

The Senate will require each School seeking recognition to submit to the visitation of any person or persons whom they may appoint, at any time to see that the above-mentioned conditions are fulfilled. They will furnish a printed copy of these conditions to such Schools, on which, in the case of Chartered Colleges, the acceptance of these rules shall be signified by the Registrar or other accredited authority; and in the case of non-chartered institutions all the teachers who seek the recognition of their certificates shall subscribe thereto their acquiescence in the conditions.

The Senate reserve the power of accepting or refusing individual teachers in cases where a School cannot be recognised as a whole.

In the case of Hospitals seeking recognition as Schools for clinical teaching the Senate will require evidence\*—

1. That it contains at least sixty beds in constant occupation.
2. That at least ten beds are provided for the treatment of cases of fever.†
3. That it possesses a suitable lecture theatre and other appliances necessary for clinical teaching.
4. That a roll of attendance is strictly kept, which shall be open to the inspection of any person delegated thereto by the Senate.

The Senate reserve the right of deputing any person or persons whom they may think fit to see that these conditions are carried out.

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#### INSTITUTIONS FROM WHICH THE UNIVERSITY RECEIVES CERTIFICATES FOR DEGREES IN MEDICINE.

The following are the Institutions from which the University receives Certificates for Degrees in Medicine, subject to strict compliance with the foregoing regulations:—

#### IRELAND.

DUBLIN.—Carmichael College.  
Catholic University Medical School.  
Ledwich School of Surgery and Medicine.

† Students who attend Hospitals not admitting fever cases must produce a certificate of having attended for at least three months at a Fever Hospital of repute, such three months to be a part of the twenty-four months of Hospital attendance required by the regulations of the University for the degree of M.B.

- DUBLIN.**—Royal College of Science.\*  
 Royal College of Surgeons.  
 School of Physic in Ireland. †  
 University College, Stephen's-green.\*  
 Adelaide Hospital.  
 City of Dublin Hospital.  
 Sir Patrick Dun's Hospital.  
 Jervis-street Hospital.  
 Mater Misericordiæ Hospital.  
 Meath Hospital.  
 Mercer's Hospital.  
 Richmond, Whitworth, and Hardwicke Hospitals.  
 Dr. Steeven's Hospital.  
 St. Vincent's Hospital.  
 Coombe Lying-in Hospital.  
 Rotundo Hospital.  
 Richmond Lunatic Asylum.
- BELFAST.**—The Queen's College.  
 Belfast Royal Hospital.  
 Belfast Lying-in Hospital.  
 Ulster Hospital, Fisherwick-place.  
 Belfast District Lunatic Asylum.
- CORK.**—The Queen's College.  
 The Mercy Hospital.  
 North Infirmary.  
 South Infirmary.  
 Cork Union Hospital.  
 Cork Lying-in Hospital.  
 Cork Maternity.  
 Cork District Lunatic Asylum.
- GALWAY.**—The Queen's College.  
 County Galway Infirmary and Town Hospitals.

#### ENGLAND.

- BATH.**—Bath United Hospital.
- BEDFORD.**—General Infirmary and Fever Hospital
- BIRMINGHAM.**—Queen's College.  
 General Hospital.  
 The Queen's Hospital.  
 Birmingham Lunatic Asylum.
- BRISTOL.**—University College.\*  
 Medical School.  
 Infirmary.  
 General Hospital.
- CAMBRIDGE.**—University Medical School and Addenbrooke's Hospital.
- EXETER.**—Devon and Exeter Hospital.
- LEEDS.**—School of Medicine.  
 General Infirmary.
- LEICESTER.**—Leicester Infirmary.
- LIVERPOOL.**—The Medical Faculty of Liverpool University College; and the Royal Infirmary  
 Maternity Hospital, in connexion with this Faculty of Medicine.  
 Fever Hospital. Northern Hospital.  
 Royal Southern Hospital.  
 Lancashire County Lunatic Asylum, Rainhill, Liverpool.
- LONDON.**—  
 King's College, and King's College Hospital.  
 University College.\*  
 London Hospital.  
 London Fever Hospital, Liverpool Road.  
 Middlesex Hospital.  
 Charing Cross Hospital.  
 St. Thomas's Hospital.  
 St. Bartholomew's Hospital.  
 Westminster Hospital.  
 Guy's Hospital.  
 St. George's Hospital.

\* For Physics, Chemistry, Botany, and Zoology only.

† The School of Medicine connected with Trinity College, Dublin.

- LONDON.**—The Physicians of the St. Marylebone Infirmary  
 St. Mary's Hospital, Paddington.  
 Brompton Hospital for Consumption, for Three Months Medical Hospital Practice.  
 St. Luke's Hospital.  
 London School of Medicine for Women.  
 Royal Free Hospital, Gray's Inn Road.  
 Bethlehem Royal Hospital.  
 Hanwell Lunatic Asylum.
- MANCHESTER.**—The Royal Infirmary.  
 Owens College, for Instruction in Chemistry.
- NETLEY.**—Royal Victoria Hospital.
- NEWCASTLE-UPON-TYNE.**—College of Medicine in connexion with the University in Durham.  
 College of Medicine and Practical Science.  
 The Infirmary.
- NOTTINGHAM.**—The General Hospital.
- SHEFFIELD.**—The Sheffield Medical Institution.

#### SCOTLAND.

- ABERDEEN.**—King's College and University.  
 Royal Infirmary.
- EDINBURGH.**—University of Edinburgh, Medical and Surgical School.  
 Surgeons' Hall.  
 Royal Infirmary.  
 Edinburgh Royal Maternity.  
 Royal Edinburgh Asylum for the Insane.
- GLASGOW.**—University of Glasgow.  
 Anderson's College.  
 Royal Infirmary.  
 Maternity Hospital.  
 Glasgow Royal Asylum for the Insane.  
 City Parochial Lunatic Asylum.

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#### FEES.

**N.B.**—The attention of Candidates is specially directed to the following notice respecting Fees :—

In case any Candidate shall fail to attend for, or to pass any University Examination (other than the Matriculation Examination) in respect of which any Fee was paid, such Candidate shall not be entitled to have the Fee returned, but shall be allowed within three years to enter on any two subsequent occasions for the same Examination, without the payment of an additional Fee. Provided that he gives notice to the Secretaries at least one month before the commencement of the Examination, such notice in respect to the privilege aforesaid being considered equivalent to entry.

Candidates proposing to avail themselves of this privilege, and to enter a second or a third time for an Examination which they had previously failed to attend for or to pass, will be required to fill up and transmit to the Secretaries of the University the usual Form of Notice of intention to appear at the Examination.

Any Candidate deprived of his Examination by decision of the Standing Committee, or who, having failed to pass an Examination, shall have been adjudged by the Standing Committee to have violated any of the University rules, must, upon again presenting himself for such Examination, pay the prescribed fee, unless it is remitted by special order of the Committee. [See page 52.]

## CHANGES IN THE COURSES FOR 1887-88.

The Senate at its Meetings in October, 1886, and January, 1887, enacted that the following Regulations concerning the Courses of Medical Studies in order to Degrees in Medicine in this University shall come into operation in the Autumn of 1887.

(i.) Medical Students shall not enter upon their regular professional studies until the completion of their obligatory non-professional studies.

Certificates of attendance on courses of instruction not in conformity with this regulation will not be accepted.

*General Regulations.*

Candidates shall furnish proper Certificates of attendance at the several Courses of Medical Instruction prescribed for the different years of the Course.

No other Certificates but those issued by Institutions which have been formally recognized by the Senate, can be received.

Where Certificates in a special department (*ex. gr.* Fever, Mental Diseases, Ophthalmology, &c.) are presented, they must be signed by the Physician or Surgeon in charge of such department.

*First Year.*

(ii.) The First Year's course of Medical studies shall include :—

Natural Philosophy, taught experimentally, either a Six Months' Course with Lectures (illustrated experimentally) on Three days in the week ; or a Three Months' Course with Lectures (illustrated experimentally) every day in the week. (See below, page 53.)

Systematic and Practical Chemistry.

Biology.	{	Botany, a Three Months' Course, with Lectures and Demonstrations on Three days in the week at least.
[See Courses on page 54.		Zoology, a Three Months' Course, with Lectures and Demonstrations on Three days in the week at least.

The First Examination in Medicine shall include these subjects ; and particular weight shall be given to the practical part of the Examination.

Henceforward, Candidates prior to admission to the First Examination in Medicine, will be required to produce a certificate of their registration as Medical Students.

Candidates at the First Examination in Medicine, who at the First University Examination in Arts, did not obtain 30 per cent. of the marks assigned to French or German, will be required to present themselves for a qualifying Examination in French or German. Failure to obtain 30 per cent. of the marks assigned to the language so presented will involve the loss of the Examination.

(iii.) Students who have already taken the Degree of B.A. in any of the subjects named for the First Year's Course of Medical Studies shall upon the production of certificates of attendance in recognised



institutions at proper courses of instruction in such subject or subjects, be exempted from attending any further lectures or passing examinations in such subject or subjects; and any such students who have passed Natural Philosophy, Systematic and Practical Chemistry and Biology, shall be reckoned to have completed the First Year's Course of Medical Studies, and shall be entitled at once to enter upon the Second Year's Course of Medical Studies.

But, to entitle a Candidate to any of the privileges here conceded, he must at the B.A. Examination have obtained in the subject or subjects in which he now claims exemption, such marks as would of themselves have entitled him, in the judgment of the Examiners, to be considered to have passed in such subject or subjects.

*Second Year.*

(iv.) The Second Year's course of Medical Studies shall include :—

Systematic Anatomy ;  
Practical Anatomy (Dissections) ;  
Systematic Physiology.  
Pharmacology (Materia Medica) ;

Attendance during a *Winter* Session of Six Months at a Medico-Chirurgical Hospital recognised by the University, and at the Clinical Lectures delivered therein.

The Second Examination in Medicine shall include the three subjects above mentioned.

(v.) No certificate of attendance on any of the courses here prescribed for the Second Year shall be accepted, where such attendance appears to have been given before the completion of the full course prescribed above for the First Year.

*Third Year.*

(vi.) No certificate of attendance at instruction in any of the branches of study assigned to the Third and Fourth Years shall be accepted, where such attendance appears to have been given prior to the completion of the Second Year of Medical Studies, as above.

(vii.) The Third Year of Medical Studies shall comprise :—

Advanced Systematic Anatomy ;  
Practical Anatomy ;  
Advanced Systematic Physiology ;  
Practical Physiology and Histology ;  
Medicine, including Therapeutics and Pathology ;  
Surgery, including Therapeutics and Surgical Pathology ;

Attendance during a *Winter* Session of Six Months, and a *Summer* Session of Three Months at a General Hospital recognised by the University, and at the Clinical Lectures therein.

(viii.) There shall be at the end of the Third Year of Medical Studies a special Examination in the complete course of Anatomy, Physiology, and Histology, as prescribed above.

A Fee of £1 must be paid by Candidates when entering for this examination.

*Fourth Year.*

(ix.) The Fourth Year's Course shall comprise the remaining subjects of the Medical Curriculum, viz. :—

Midwifery, and Diseases of Women and Children.

Mental Diseases (Three Months' Course in a recognised Institution where Clinical Instruction on Mental Diseases is given).

Medical Jurisprudence, with Hygiene.

Ophthalmology and Otology, a Three Months' Course in an Hospital having at least ten beds devoted to Diseases of the Eye and Ear.

Attendance during a *Winter* Session of Six Months and a *Summer* Session of Three Months, at a General Hospital recognized by the University, and at the Clinical Lectures therein.

*Hospitals, etc.*

(x.) The present regulations as to Hospital attendance, Practical Midwifery, etc., shall be maintained, with the following provisos ;

- (a.) No Hospital attendance will be recognised, where such attendance has taken place prior to the completion of the First Year of Medical Studies.
- (b.) The prescribed attendance during three months in a Fever Hospital, etc., must not take place during the period of attendance on Practical Midwifery and Gynæcology.\*
- (c.) Attendance on Practical Midwifery and Gynæcology shall not take place before the Fourth Year of Medical Studies.
- (d.) Only those Midwifery Hospitals will be recognised, which contain at least 15 beds in regular occupation.
- (e.) Attendance at a Midwifery Dispensary will not be deemed sufficient, unless the Dispensary has been expressly recognised by the Senate.
- (f.) Certificates of attendance at a course of Practical Midwifery, subsequent to September, 1887, must state that the Candidate has attended at twenty labours at least, of ten at least of which he has had personal charge.

*The Final Examinations.*

(xi.) After 1887, Candidates, when entering for the Final Examination, must produce a Certificate of having acted as Dresser or Clinical Clerk in a recognised General Hospital for at least two months.

(xii.) The Certificate of having received practical instruction in Vaccination must state that the Candidate has on, at least, ten distinct days attended at the Dispensary or other place appointed for public vaccination, and there received practical instruction from a Public Vaccinator.

(xiii.) The Examination for the M.B. Degree shall take place at the conclusion of the Fourth Year of Medical Studies, and will comprise all the subjects prescribed above for the Third and Fourth Years of Medical Studies, with the exception of Anatomy, and Physiology and Histology.

(xiv.) Should any Candidate specially desire it, he may be allowed to present himself for the two Examinations—that for the Third Year and the Final Examination—at the end of his Fourth Year. But in such a case, failure in the subjects of the Third Year's Examination shall involve the complete loss of the whole Examination.

\* A Form of Certificate of attendance on Fever Cases, setting out certain particulars which it is desirable Students shall note, will be prepared, and will be ready for issue after 1st March next.

*M.Ch. Examination.*

(xv.) Candidates for the Degree of Master of Surgery will be required to produce a Certificate showing that they have attended a Course of Operative Surgery, given on twenty-four distinct days in a recognised School by a duly appointed Lecturer on Surgery. The Certificate shall state that the Candidate himself has during such course performed at least four major operations on the dead subject under the direction of the Lecturer.

In addition to a Certificate of having acted as Clinical Clerk, every Candidate will be required to produce a Certificate of having acted as Dresser for at least two months in the Surgical Wards of a recognized General Hospital.

*M.A.O. Examination.*

(xvi.) Candidates for the Degree of M.A.O. will be required to produce a Certificate showing that they have had personal charge of at least *twenty* cases of labour.

*Honours and Exhibitions, &c.*

(xvii.) There shall be an Honour Examination in connexion with each of the Four Medical Examinations, and the Honours shall be awarded according to the method at present in force.

The Senate have adopted the following rearrangement of the Exhibitions to come into operation in 1888; provided it shall have before that time received the sanction of Her Majesty.

(xviii.) Exhibitions shall be assigned each year in connexion with each Examination, as follows:—

*First Examination in Medicine.*—Two First Class Exhibitions of £20 each, and two Second Class Exhibitions of £10 each.

*Second Examination in Medicine.*—Two First Class Exhibitions of £25 each, and two second Class Exhibitions of £15 each.

*Third Examination in Medicine.*—Two First Class Exhibitions of £30 each, and two Second Class Exhibitions of £20 each.

*M. B. Examination.*—Two First Class Exhibitions of £40 each, and two Second Class Exhibitions of £25 each.

Provided that an Exhibition shall not be awarded to any Candidate at the First Examination in Medicine if a longer interval than three Academical years shall have elapsed from the time of Matriculation; or at the Second Examination in Medicine if a longer interval than two Academical years shall have elapsed from the time of passing the First Examination in Medicine; or at the Third Examination if a longer interval than three Academical years shall have elapsed from the time of passing the First Examination in Medicine; or at the M. B. Degree Examination if a longer interval than four Academical years shall have elapsed from the time of passing the First Examination in Medicine.

Not more than one First Class Exhibition, and one Second Class Exhibition shall be awarded in connexion with each Examination, so long as each Examination is held twice annually.

*Travelling Medical Scholarship.*

(xix.) In and after the year 1888 a Travelling Scholarship in the Faculty of Medicine, value £100, will be open to competition at the

**October Examination in the Faculty of Medicine.** The subjects will be in rotation—(1) Anatomy and Histology, and (2) Physiology and Pathology. Only those Students who have passed the Final M. B. Examination within one University year previous to the date of the Examination will be eligible.

The successful Candidate will be required to proceed, within the succeeding Six Months, to some Foreign School of Medicine, the name of which must first be submitted to the Medical Committee for approval; and he must there study for a period of six months. If desirable, the Scholar may, with the Sanction of the Committee, spend three months at one School and three months at another.

The Scholarship will be paid in four instalments—£20 after the successful Candidate has been declared by the Senate; £20 on his arrival at the Foreign place of study; £30 on the completion of his first three months' work, and £30 at the close of the second three months.

The Scholar must produce Certificates from his Foreign Teachers, testifying to his diligence, before the payment of the third and fourth instalments.

The subjects for the Anatomical Scholarship shall be Human Anatomy, including Anatomical Technique, Embryology, Comparative Anatomy of the Vertebrates, Histology, and Surgical Pathology.

The subjects for the Physiological Scholarship shall be Physiology, Theoretical and Practical; Pathology, including Bacteriology, the recognition of morbid specimens by the naked eye, and the various methods which are employed in the preparation of the diseased tissues for microscopical examination.

The Scholar will be required to show such a knowledge of the language of the country which he may select as will enable him to take proper advantage of the instruction given.

#### *Date of Changes.*

(xx.) With reference to the date at which this rearrangement of the Medical Course shall be brought into operation, the Senate have ordered as follows:—

- (a.) All Medical Students who shall not have passed the First Examination in Medicine prior to the 1st November, 1887, shall come under the operation of the whole of these New Regulations.
- (b.) Medical Students who shall have passed the First Examination in Medicine prior to 1st November, 1887, shall be required to pass subsequently the Second Examination in Medicine as at present, in the four subjects of Anatomy, Physiology, Chemistry, and Pharmacology.
- (c.) Should any Candidates qualified to present themselves for the M.B. Examination desire to be allowed the privilege of availing themselves of the division of subjects of examination mentioned in Nos. viii. and xi. above, they will be allowed to do so, even during the coming year.
- (d.) All Medical Students who on the 29th September, 1887, shall not be of more than two years' standing as Medical Students, shall come under the operation of the new regulations as to the Third and Fourth Years of Medical Studies.

- (e.) Where prior to the promulgation of this scheme, Courses of Lectures or Hospitals have been attended in an order consistent with the existing Regulations, but not in the order prescribed in this scheme, Certificates of such attendance will be accepted. But after the promulgation of this scheme all attendances at Courses of Lectures and Hospitals must take place conformably with the Regulations herein set out.

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### SPECIAL REGULATIONS FOR 1887 REGARDING EXAMINATIONS IN ANATOMY AND PHYSIOLOGY ONLY.

Candidates fully qualified by standing, &c., entering for the Final M.B. Examination this year, and paying the prescribed fee, may, if they so desire, be examined in Anatomy and Physiology only.

No other persons but those qualified to present themselves for the final M.B. Examination will be allowed to be examined either in the Spring or Autumn of this year in Anatomy and Physiology only.

For the present there will be no change as to the Honours and Exhibitions connected with the Final Examination for the M.B. Degree; but a re-arrangement of the Exhibitions assigned to Medicine which will admit of allocating in future some such awards at the Intermediate Examination in Anatomy and Physiology is under consideration.

Candidates presenting themselves this year for the whole Examination, and passing in Anatomy and Physiology, but failing in some of the other subjects, may be reckoned to have passed the Third Medical Examination, and may present themselves at the next succeeding Examination for the remainder of the M.B. Examination.

*February 3rd, 1887.*

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### SYLLABUS OF COURSES FOR FIRST EXAMINATION IN MEDICINE, 1888.

#### NATURAL PHILOSOPHY.

##### *Syllabus for Practical Examination.*

- Use of hydrometer for determining specific gravity of liquids.
- Osmosis—Method of separating crystalloid and colloid bodies in solution.
- Adjustment of maximum and minimum thermometer.
- Reading barometer with vernier scale.
- Reduction of barometric height to freezing point.
- Adjustment of height of mercury in cistern, or correction for capacity.
- Use of goniometer for measuring angles.
- Determination of dew point by Daniel's or Regnault's hygrometer.
- Determination of vapour in air by wet and dry thermometer.
- Determination of focal length of lenses.
- Adjustment of microscope with camera lucida.
- Polarizing and analyzing prism—Tourmaline tongs.
- Adjustment of spectroscope—Method of observing absorption bands.
- Structure of polariscope for determining the circular polarizing powers of liquids.
- Structure of ophthalmoscope.

Setting up and arranging ordinary forms of voltaic batteries—Daniel's, Smee's, Bichromate, Groves's, and Clanché's.

Exhibit induction of electric current by a magnet and by another current.

Construction of electro-medical machine.

#### BIOLOGY.

Instead of the description of the Courses in Botany and Zoology set out on pages 95 and 96 of the Calendar for the present year, the following will come into operation for the Examinations of 1888 :—

The Examination shall comprise :—

- A. { A written examination on Botany.  
A written examination on Zoology.

B. Periods of practical work and oral examination.

#### *Syllabus of Course for Pass Examination in Zoology and Botany.*

1. The properties of the living cell ; an elementary knowledge of the processes of nutrition, growth, and reproduction of organized beings.
2. The anatomy of the Rabbit, the Pigeon or Fowl, and the Frog.
3. A knowledge of the structure and classification of the following groups (to be varied from year to year) :—

*Fishes*—Elasmobranchii.

*Reptiles*—Ophidia.

*Mammals*—Monotremata ; Marsupialia ; Ungulata ; Carnivora.

4. The zoological position, structure, and life-history, of the following types :—Anodon, Cray-fish or Lobster (*Astacus*, *Homarus* or *Nephrops*), Leech, Earth-worm, Hydra, *Paramœcium*, *Amœba*.

5. The morphology and minute anatomy of a flowering plant, including stem, leaf, root, and growing points. Morphology of the organs of the Yeast Plant, Fern, and Conifer.

6. The characters of the following orders—*Ranunculaceæ*, *Papaveraceæ*, *Cruciferæ*, *Malvaceæ*, *Leguminosæ*, *Rosaceæ*, *Umbelliferæ*, *Compositæ*, *Scrophulariaceæ*, *Solanææ*, *Labiataæ*, *Euphorbiaceæ*, *Cupuliferæ*, *Orchidaceæ*, *Liliaceæ*, *Gramineæ*, *Coniferæ*.

7. Each Candidate must be prepared to dissect, and to recognise preparations, microscopical and anatomical, of the animals and plants referred to in Nos. 2, 4, and 5 of the Syllabus.

*Honour Examination* :—In addition to the subjects of the Pass course :—

1. Knowledge of the principal Vertebrate Orders.
2. Knowledge of the classes and sub-classes of Invertebrata.
3. Dissection and recognition of the following additional types—*Gadus* (or *Merlangus*), *Helix*, *Amphioxus*, *Blatta*, *Oniscus*, *Taenia*, *Uraster*, *Actinia*, *Vorticella*.
4. A knowledge of the chief British natural orders of Plants, including their morphology and economic uses.
5. A practical knowledge of the morphology of the following cryptogams :—*Mucor*, *Cordiceps*, *Penicillium*, *Agaricus*, *Fucus*, *Funaria*, *Equisetum*, *Selaginella*.

**TABULAR VIEW OF THE REGULATIONS OF THE ROYAL COLLEGES OF PHYSICIANS AND SURGEONS,  
AND OF THE SOCIETY OF APOTHECARIES IN LONDON.**

	ROYAL COLLEGES OF PHYSICIANS AND SURGEONS.	ROYAL COLLEGE OF PHYSICIANS OF LONDON.	ROYAL COLLEGE OF SURGEONS OF ENGLAND.		APOTHECARIES' SOCIETY.	
	Double Qualification.	Licentiates.	Fellows.	Members.	Licentiates.	
<b>AGE REQUIRED, EVIDENCE OF GENERAL EDUCATION BEFORE COMMENCEMENT OF PROFESSIONAL STUDY.</b>	Twenty-one. Certificate of Registration as a Student by the General Medical Council.	Twenty-one. Certificate of having passed examination in subjects of General Education recognised by the General Medical Council, and of being registered as a student.	Twenty-five. Certificate of Registration by the General Medical Council.	Twenty-one. Certificate of Registration by the General Medical Council.	Twenty-one. Certificate of Registration as a Medical Student by the Medical Council, and of examination in Mechanics, recognised by the Council.	
<b>DURATION OF PROFESSIONAL STUDY.</b>	Forty-five months; at least three winters and two summers at a recognised school or schools.	Forty-five months; at least three winters and two summers at a recognised school or schools.	Six years; or members, two years in addition to the certificate for the diploma of member.	Four years, or not less than four winter and four summer sessions.	Forty-five months; not less than three winter and two summer sessions at a recognised hospital and school of medicine.	
<b>COURSES OF LECTURES, &amp;c., REQUIRED.</b>						
<i>Anatomy and Dissections.</i>	Lectures, six months; dissections, twelve months.	A course of Anatomy; Dissections 12 months.	Lectures during two winters; dissections three winters.	Lectures, two winters; dissections, two winters.	First two winter sessions; Histology, second winter session.	
<i>Physiology.</i>	Lectures, six months; Practical Physiology, three months.	Physiology and Practical Physiology, each one course.	Lectures one winter; and practical physiology, another session.	Lectures, one winter; Practical Physiology, another session.	First two winter sessions.	
<i>Chemistry.</i>	} Instruction.	} Instruction; time not specified.	One course.	One course.	First winter session.	
<i>Practical Chemistry.</i>			Three months.	Three months.	First summer session.	
<i>Materia Medica.</i>			One course.	One course.	Three months.	First summer session.
<i>Practical Pharmacy.</i>			Not required.	Not required.	Three months.	Three months.
<i>Botany.</i>	} Three months; demonstrations in <i>post-mortem</i> room during clinical study.	} One course; demonstrations in <i>post-mortem</i> room during clinical study.	Lectures, three months; demonstrations, three winter and two summer sessions.	Lectures, three months; demonstrations in <i>post-mortem</i> room.	First summer session.	
<i>Morbid Anatomy.</i>						Lectures, third summer session; demonstrations with hospital practice.
<i>Medicine.</i>	Six months.	One course.	One course.	One course.	Third winter session.	
<i>Clinical Medicine.</i>	Nine months.	Nine months.	One winter and one summer session.	One winter and one summer session.	Second and third summers; third winter.	
<i>Surgery.</i>	Six months.	One course.	One winter session.	One winter session.	Second winter session.	
<i>Clinical Surgery.</i>	Nine months.	Nine months.	Two winter and two summer sessions. Observation and examination of patients for three months.	Two winter and two summer sessions. Observation and examination of patients; three months.	Second winter session.	

TABULAR VIEW OF THE REGULATIONS OF THE ROYAL COLLEGES OF PHYSICIANS AND SURGEONS,  
AND OF THE SOCIETY OF APOTHECARIES IN LONDON—*continued.*

	ROYAL COLLEGES OF PHYSICIANS AND SURGEONS.	ROYAL COLLEGE OF PHYSICIANS OF LONDON.	ROYAL COLLEGE OF SURGEONS OF ENGLAND.		APOTHECARIES' SOCIETY.
	Double Qualification.	Licentiates.	Fellows.	Members.	Licentiates.
<b>COURSES OF LECTURES, ETC., REQUIRED—<i>con.</i></b> <i>Practical Surgery, Midwifery and Diseases of Women. Clinical Study of Diseases of Women. Forensic Medicine, Hospital Practice.</i>	Three months; attendance on twenty labours. Three months.	Required. One course not less than twenty labours. Three months.	Six months. One course; not less than ten labours. Not stated.	Six months. One course, not less than ten labours. Not stated.	Not required. Second summer session; twenty cases of labour. Third summer session.
<i>Hospital Appointments,</i>	Three months. Medical and Surgical Practice; three winter and two summer sessions.	One course Medical and surgical practice, three winter and two summer sessions.	One course. Surgical practice, four winter and four summer sessions; medical practice one winter and one summer.	One course. Surgical practice, three winters and two summers; medical practice, one winter and one summer.	Second summer session. Surgical practice, two winters and one summer; medical practice two winters and two summers.
<i>Other Certificates,</i>	Medical Clinical Clerk, six months; Surgical Dresser, six months.	Clinical clerk, six months; dresser, six months.	House surgeon or dresser, six months.	Dresser, or (after a year of study) charge of patients under superintendence of a surgeon, six months.	Clinical clerk and surgical clerk or dresser.
<b>NUMBER OF EXAMINATIONS; FIRST EXAMINATION; WHEN IT MAY BE PASSED; SUBJECTS.</b>	Systematic Practical Instruction in Medicine, Surgery, and Midwifery. Instruction in Vaccination. Attendance on Class Examinations.	Systematic Practical Instruction in Medicine, Surgery, and Obstetric Medicine. Instruction and proficiency in Vaccination. Moral character.	Instruction and proficiency in Vaccination. Comparative Anatomy, one course. Operations on dead body.	Instruction and proficiency in Vaccination. Examinations in Elementary Anatomy and Physiology at medical school.	Having been examined at class examinations. Instruction in Vaccination. Moral conduct.
<b>SECOND EXAMINATION; AT WHAT PERIOD IT MAY BE PASSED; SUBJECTS.</b>	Three. After registration in Chemistry, Materia Medica, Botany, and Pharmacy; at end of first year, Elementary Anatomy and Physiology.	Three. After registration as a student; Chemistry and Chemical Physics; Materia Medica, Medical Botany, and Pharmacy; and Osteology.	Two. After third winter session; in Anatomy and Physiology.	Two. After second winter session; Anatomy and Physiology.	Two. After second winter session; Pharmacy & Prescriptions, Anatomy and Physiology; Examination on living body, Chemistry, Botany, Materia Medica, and Histology.
	Six months after first examination. After eighteen months of study, subsequent to registration: Anatomy and Physiology. Each may be taken separately.	After eighteen months of study subsequent to registration as a medical student; Anatomy and Physiology.	After six years of professional study; in Surgery, including Surgical Anatomy and Pathology, Medicine, and Midwifery (Medicine and Midwifery not required if passed for the membership, nor from candidates holding	After end of fourth year of professional education; in Surgical Anatomy, and Principles and Practice of Surgery, Medicine, and Midwifery.	At end of fourth year of medical studies: Part I., Surgery, Surgical Anatomy, Surgical Pathology, Surgical Instruments and Appliances, Examination of cases, Midwifery and Diseases of Women and Children (written); Part II., Medi-



**THIRD EXAMINATION; AT WHAT PERIOD IT MAY BE PASSED; SUBJECTS.**

Two years after second examination; 45 months after registration. Medicine, Surgery, Midwifery and Diseases of Women. (Forensic Medicine and Public Health are included.) Each part may be taken separately.

After four years of study; two years after second examination; Medical and Surgical Anatomy and Pathology; Principles and Practice of Medicine and Therapeutics, and of Surgery; Midwifery and Diseases of Women. (Forensic Medicine, Public Health, and Therapeutics are included.)

approved diplomas, degrees, or licences, or from those intending to obtain a qualification in Medicine and Midwifery; the diploma of the College is not issued until proof of having passed the required examination is produced.)

cine and Therapeutics, Examination of cases, Pathology and Morbid Histology, Midwifery and Diseases of Women and Children (oral), Forensic Medicine and Toxicology, Mental Diseases, and Hygiene.

**FEES PAYABLE,**

At first or second examination, £10 10s.; re-examination after rejection, in either part of examination, £3 3s. At third examination, £15 15s.; re-examination, after rejection in Medicine or Surgery, £5 5s.; Midwifery £3 3s.

£5 5s. for admission to each examination. Candidate rejected at any examination must pay additional £3 3s. before re-admission to examination. Fee for Licence, £15 15s.

At first examination, members, £5 5s.; non-members, £10 10s.; £5 5s. returned if rejected. At second examination, member, £10 10s. (above charge for stamps); if not a member £21 (over and above charges for stamps). In each case £10 10s. is retained in case of rejection.

Preliminary examination at Med. School £2; Diploma of College £22; £5 5s. at first examination; after failure at this examination, candidate must pay an additional £3 3s. before being again admitted. At Pass Examination, £16 15s. paid and £5 5s. retained on each failure.

For the Licence, £6 6s.

**REJECTED CANDIDATES.**

After first or second examination, re-admitted after three months; after third, six months. Candidates are re-examined in subjects in which they have been rejected.

After rejection at first or second examination, not again admitted until end of three months; after third examination, not till end of six months.

After rejection at first examination, candidates not again admitted for six months; after second examination, not till end of one year, unless Court of Examiners shall otherwise determine.

After rejection at primary examination, three or six months; after rejection at second examination, six months or longer.

After rejection at primary or at Surgical portion of final examination, candidate cannot be re-admitted till after three calendar months; after final examination, not till after six calendar months.

**CANDIDATES (1) EXEMPTED FROM CERTAIN PORTIONS OF THE EXAMINATIONS, OR (2) ADMITTED UNDER SPECIAL REGULATIONS.**

(1) At first examination, candidates who have passed a University examination in any subject (except Elementary Anatomy and Physiology). (2) Holders of Colonial, Indian, or Foreign Qualifications entitling to practise, admitted to second and third examinations.

(1) Candidates who have elsewhere passed examinations in the subjects of the first and second examinations; who have obtained Degrees in Surgery at a recognised University; who have passed an examination in Surgery at a College of Surgeons; who have obtained foreign qualifications entitling them to practise Medicine or Surgery.

(2) Members are admitted to first examination at any time after receiving diploma; to second examination at any subsequent time, if engaged not less than six years in study (or practice) of profession; in case of graduates in Arts of a recognised University, five years.

(2) a. Candidates who have studied in Scotland or in Ireland, or at recognised Foreign or Colonial Universities; b. members or licentiates of the other Colleges of Surgeons; and Graduates in Medicine or Surgery of a recognised University, admitted to professional examination on production of the necessary certificates or diplomas.

See page

TABULAR VIEW OF THE REGULATIONS OF THE MEDICAL EXAMINING BODIES IN SCOTLAND.

	ROYAL COLLEGE OF PHYSICIANS OF EDINBURGH.	ROYAL COLLEGE OF SURGEONS OF EDINBURGH.	COLLEGES OF PHYSICIANS AND SURGEONS OF EDINBURGH AND FACULTY OF PHYSICIANS AND SURGEONS OF GLASGOW.	FACULTY OF PHYSICIANS AND SURGEONS OF GLASGOW.	UNIVERSITIES OF SCOTLAND.
	Licence.	Diploma.	Conjoint Examination.	Fellowship.	Bachelor of Medicine and Master in Surgery.
AGE REQUIRED, . . . . .	Twenty-one.	Twenty-one.	Twenty-one.	Twenty-four years.	Twenty-one years.
EVIDENCE OF GENERAL EDUCATION BEFORE COMMENCEMENT OF PROFESSIONAL STUDY.	Having passed a preliminary examination and being registered as a student by Medical Council.	Having passed a preliminary examination, and being registered as a student by Medical Council.	Having passed a preliminary examination, and being registered as a student by the Medical Council.	Registration as a student by the General Medical Council.	Preliminary examinations by University; or Degree in Arts or equivalent examinations.
DURATION OF PROFESSIONAL STUDY.	Four years; including four winter sessions, or three winter and two summer sessions at a recognised school.	Forty-five months, including four winter sessions, or three winter and two summer sessions at a recognised school.	Forty-five months, including four winter sessions, or three winter and two summer sessions at a recognised school.	(For candidates having qualified) six years; graduates in Arts or Science, five years.	Four years; one year being in the University, and another in the same or some other University (see page ).
COURSES OF LECTURES, ETC., REQUIRED.					
Anatomy, . . . . .	Six months.	{ A., two courses of six months, and P.A. twelve months; or A. six months, and P.A. eighteen months. } Fifty lectures.	Six months.	Two winter sessions.	One hundred lectures.
Practical Anatomy, . . . . .	Six months.		Twelve months.	Eighteen months.	Course of same duration.
Physiology, . . . . .	Three months.		Six months.	One winter.	One hundred lectures.
Practical Physiology, . . . . .	—	—	—	Three months.	—
Chemistry, . . . . .	Six months.	Six months.	Six months.	One winter.	One hundred lectures.
Practical Chemistry, . . . . .	Three months.	Three months.	Three months.	Three months.	Three months.
Materia Medica, . . . . .	Three months.	Three months.	Three months.	Three months.	One hundred lectures.
Practical Pharmacy, . . . . .	Three months.	Three months.	Three months.	Three months.	(See page ).
Natural History (Zoology), . . . . .	—	—	—	—	Fifty lectures.
Botany, . . . . .	—	—	—	—	Fifty lectures.
Pathology, . . . . .	Three months.	Attendance in <i>post-mortem</i> room, three months.	Three months; lectures or attendance in <i>post-mortem</i> room.	Three months; and Practical, three months.	One hundred lectures; or Pathological Anatomy three months, with supplementary course of Medicine or Clinical Medicine.
Medicine, . . . . .	Six months.	Six months.	Six months.	Six months.	One hundred lectures.

<i>Clinical Medicine,</i>	Six months.	Six months.	Nine months.	Twelve months.	Six months (100 lectures, Edin.), or two courses of three months.
<i>Surgery,</i>	Six months.	Six months.	Six months.	Six months.	One hundred lectures.
<i>Clinical Surgery,</i>	Three months.	Six months; and a third course, either systematic or clinical.	Nine months.	Twelve months.	Six months (100 lectures, Edin.), or two courses of three months.
<i>Practical Surgery,</i>	—	—	—	Three months.	—
<i>Midwifery and Diseases of Women.</i>	Three months; at least six labours.	Three months; six cases of labour.	Three months; six cases of labour.	Three months; six cases of labour.	One hundred lectures; three months' Midwifery Hospital, or six cases of labour.
<i>Medical Jurisprudence,</i>	Three months.	Three months.	Three months.	Three months.	Fifty lectures.
<i>Hospital Practice &amp; Hospital Appointments.</i>	Public Hospital twenty-four months; twelve months in medical wards. Public Dispensary six months, or Clinical Clerk or Dresser, or Visiting Assistant, six months.	General Hospital twenty-four months; Public Dispensary six months, or Visiting Assistant six months.	General Hospital twenty-four months; Public Dispensary six months; or three months with three months' hospital clerkship.	Twenty-four months.	General Hospital, two years; Out-practice of hospital, or of dispensary or registered practitioner, six months.
NUMBER OF EXAMINATIONS.	One; final only. Candidates must have qualification in Surgery.	Two.	Three.	Two; each examination may be divided.	In Edinburgh and Glasgow, four; in Aberdeen and St. Andrew's, three. For the subjects of these examinations, and the periods of study at which they may be passed in the respective universities, see page
FIRST EXAMINATION; WHEN IT MAY BE PASSED; SUBJECTS.	—	End of second winter; Anatomy, Physiology, and Chemistry.	End of first year; Chemistry, Practical Chemistry, Elementary Anatomy, and Histology.	Anatomy and Physiology (including Histology and Embryology); Chemistry (unless already passed).	—
SECOND EXAMINATION; WHEN IT MAY BE PASSED; SUBJECTS.	At end of four years; Medicine, Clinical Medicine, Pathology, Materia Medica and Pharmacy, Surgery, Midwifery, Medical Jurisprudence.	After last winter session; Surgery and Surgical Anatomy, Medicine, Midwifery, Materia Medica, and Medical Jurisprudence.	End of summer session of second complete year; Anatomy, Physiology, Materia Medica, and Pharmacy.	Pathology, Medicine (Systematic and Clinical), Surgery (Systematic, Operative, and Clinical), Materia Medica, Midwifery, Medical Jurisprudence.	—
THIRD EXAMINATION; WHEN IT MAY BE PASSED; SUBJECTS.	—	—	End of full period of study; Medicine, Clinical Medicine, Surgery, Clinical Surgery, Midwifery and Gynaecology, Medical Jurisprudence, & Hygiene.	—	—

TABULAR VIEW OF THE REGULATIONS OF THE MEDICAL EXAMINING BODIES IN SCOTLAND—*continued.*

	ROYAL COLLEGE OF PHYSICIANS OF EDINBURGH.	ROYAL COLLEGE OF SURGEONS OF EDINBURGH.	COLLEGES OF PHYSICIANS AND SURGEONS OF EDINBURGH AND FACULTY OF PHYSICIANS AND SURGEONS OF GLASGOW.	FACULTY OF PHYSICIANS AND SURGEONS OF GLASGOW.	UNIVERSITIES OF SCOTLAND.
	Licence.	Diploma.	Conjoint Examination.	Fellowship.	Bachelor of Medicine and Master in Surgery.
FEES PAYABLE,	£15 15s.	£15 15s.; £6 6s. at first examination; in case of rejection, £3 3s. retained. £9 9s. at second examination; in case of rejection, £4 4s. retained.	First and Second Examinations, each £5 5s.; additional, after rejection in all subjects, £3 3s.; after partial failure, £2 2s. Third Examination, £15 15s.; after rejection, additional, £5 5s.	First Examination, £8 8s.; Second Examination, £12 12s.	£21; £5 5s. each of two examinations, £10 10s. at last examination of three.
DATES OF EXAMINATION,	November 4th and 5th, 1885, January 6th and 7th, April 7th and 8th, July 7th and 8th, 1886.	First: October 6th, 1885; January 26th, April 13th, July 13th, 1886. Second: Immediately after conclusion of first.	First: in Edinburgh, October 14th and 17th, 1885; January 13th to 16th, April 21st to 24th, July 7th to 10th, 1886; in Glasgow, April 7th to 10th, and July 21st to 24th, 1886. Second: Monday, Tuesday, and Wednesday next after First Examination. Final: Days next following Second Examination.	Second week in April and third week in October.	Aberdeen: end of winter and summer sessions. Edinburgh and Glasgow, April, July, and October. Clinical Examination: Edinburgh, May; Glasgow, June. Final in Edinburgh, June. St. Andrew's, end of April.
REJECTED CANDIDATES,	—	Not readmitted under three months.	At either examination, not re-admitted for three months; not re-examined in subjects in which he has passed.	—	Not readmitted until after another year of medical study, or such portion of a year as may be prescribed by the examiners (unless he have studied during another year two of the subjects— <i>Edinburgh</i> ).
ADDITIONAL INFORMATION.	See page .	See page .	See page .	See page .	See page .

## ROYAL COLLEGE OF SURGEONS IN IRELAND

## LETTERS TESTIMONIAL.

NEW SCHEME REGULATIONS, APPLICABLE to STUDENTS who commenced their STUDY subsequently to MAY 1st, 1882.

April, 1886.

Every Candidate for the Letters Testimonial of the College shall produce evidence—

- a. Of having, before entering on medical studies, passed the Preliminary Examination of the College, or an equivalent examination in general education recognised by the General Medical Council; and
- b. Of having been registered by that Council as a student in medicine (*see Regulations printed in separate form*). Certificates of medical study will not be recognised by the College if the commencement of the course to which the certificate refers dates more than fifteen days prior to such registration.\*

The College recognises as the commencement of professional study :—

1. Attendance on the practice of a Hospital, or other public institution recognised by the College for that purpose; or
2. Instruction as pupil of a legally qualified Surgeon, holding the appointment of Surgeon to a Hospital, General Dispensary, or Union Workhouse, or where such opportunities of practical instruction are afforded as shall be satisfactory to the Council; or
3. Attendance on lectures on Anatomy, Physiology, or Chemistry, by lecturers recognised by the College.

PRELIMINARY EXAMINATION.—MATRICULATION as a PUPIL of the COLLEGE and REGISTRATION as a MEDICAL STUDENT.

Full information on these subjects will be found in the separate printed regulations, which may be had from the Registrar.

## EXAMINATIONS.

Every candidate for the Letters Testimonial is required to pass a Preliminary Examination and four Professional Examinations.

All students are required to pass their Preliminary Examination before entering upon their Professional studies; and certificates of attendance on Lectures, or at Hospital, will not be received by the College, if the commencement of these courses of study dates more than fifteen days antecedent to the passing of the Preliminary Examination, unless the Irish Branch Medical Council shall dispense with compliance with the rule.

The First, Second, Third, and Fourth Professional Examinations shall be held in the July and October of each year; should the student fail to pass in July, he may present himself at the Examination held in October.

The Examination of each year must be passed before a new session can be entered on, but, upon a special application, it shall be in the discretion of the Council of the College to permit a student, for what appears to them sufficient cause, to commence a new year of study, and subsequently present himself for a Supplemental Examination.

\* The several Branch Councils have power to admit special exceptions to the regulation as to registration for reasons which shall appear to them satisfactory.

## FIRST PROFESSIONAL EXAMINATION.

Candidates are required, before admission to the First Professional Examination, to produce evidence of having passed the Preliminary Examination, and of having been registered by the Branch Medical Council as medical students at least nine months before the date of Examination.

Candidates are recommended to attend a course of lectures on Practical Anatomy, and one on Chemistry, before the First Professional Examination, and they will be allowed credit at their subsequent examinations for courses on Anatomy, Chemistry, and Practical Anatomy, and for Hospital attended in the Winter Session of their first year; also for *Materia Medica* and Practical Anatomy, attended in the Summer Session of same.

The examination shall include the following subjects, viz. :—

1. Physics, the subjects not passed at the Preliminary Examination.
2. The elements of Chemistry, as may be found in Roscoe's Lessons in Elementary Chemistry, from chapter i. to xiii. inclusive.
3. Botany, as may be found in Oliver's Lessons in Elementary Botany, Part I., with descriptions of the following plants :—The Buttercup, Poppy, Pea, Strawberry, Foxglove, and Dandelion.
4. Anatomy—Human Osteology.
5. Practical Pharmacy—Elementary.

## FEES.

The fee for this examination shall be £5 5s. (in addition to the Matriculation Fee of £5 5s).

## ORDER OF EXAMINATION.

The candidates shall be examined in numerical order, and the examination shall occupy two days.

## FIRST DAY (printed Questions).

Two hours are devoted to the examination. Three questions each on Physics, Chemistry, and Botany shall be given. Two questions only on each subject to be answered.

## SECOND DAY—(Oral).

The Oral Examinations shall be conducted at three tables—

Physics,	}	15 minutes each.
Anatomy,		
Pharmacy,		

## SECOND PROFESSIONAL EXAMINATION.

Candidates shall be required, before admission to the Second Professional Examination, to produce evidence of having passed the First Professional Examination, also certificates of having subsequently attended—

Medico Chirurgical Hospital, nine months.	{	(If not attended in first year). Practical Anatomy, with Demonstrations and Dissections. (Unless attended in first year.)
Winter Courses,		
	{	Physiology. Surgery. Chemistry (unless attended in first year).
Summer Course,		
three months.		
	{	Practical Chemistry. Practical Physiology. <i>Materia Medica</i> (unless attended in first year).

## FEES.

The fee for this examination shall be £5 5s.

Candidates shall be examined in—

1. Anatomy—Bones, Joints, Muscles, and Topographical Anatomy of the Viscera of the Chest, Abdomen and Pelvis.
2. Histology; and the Physiology of the Circulatory, Respiratory, and Digestive Systems.
3. Surgery—The signs, terminations, and treatment of Inflammation; Wounds; Hæmorrhage; Burns and Scalds; Ulcers; Bandaging.
4. Chemistry.
5. Materia Medica.

## ORDER OF EXAMINATION.

The candidates shall be examined in numerical order, and the examination shall occupy two days.

## FIRST DAY (Oral).

The Oral Examination shall be conducted at four tables, as follows:—

Chemistry and Materia Medica	}	15 minutes each.
Anatomy		
Physiology		
Surgery		

## SECOND DAY (Dissections and Histology).

Each candidate shall make a dissection of a region allotted to him; half an hour, at least, being allowed for this purpose. He shall be then examined on the anatomy of that part, and may also be examined on regions dissected by other candidates.

Preparations of different objects shall be placed under microscopes, and five minutes shall be allowed each candidate to study them before being examined upon them.

## THIRD PROFESSIONAL EXAMINATION.

Candidates shall be required, before admission to the Third Professional Examination, to produce evidence of having passed the Second Examination, also certificates of having subsequently attended—

Medico-Chirurgical Hospital; nine months as an extern pupil, or six months as a resident pupil.

Winter Courses	{	Demonstrations and Dissections.
		Practical Anatomy (unless attended in the first year).
		Surgery.
Summer Course, three months	}	Medicine.
		Medical Jurisprudence.

## FEES.

The fee for this examination shall be £5 5s.

Candidates shall be examined in—

1. Anatomy.
2. Physiology.
3. Surgery—Not including Operative, Clinical, and Ophthalmic Surgery, which are reserved for the Final Professional Examination.

## ORDER OF EXAMINATION.

The candidates shall be examined in numerical order, and the examination shall occupy three days.

**FIRST DAY (Printed Questions).**

Three hours shall be devoted to the examination. Six questions each on Anatomy, Physiology, and Surgery shall be given; four only, on each subject, to be answered.

**SECOND DAY (Oral).**

The Oral Examination shall be conducted at four tables, as follows:—

Anatomy, 15 minutes.  
Physiology, 15 minutes.  
Surgery, two periods of 15 minutes each.

**THIRD DAY (Dissections).**

Each candidate shall make a dissection of a region allotted to him, half an hour, at least, being allowed for this purpose. He shall then be examined on the anatomy of that part, and may also be examined on regions dissected by other candidates.

**FOURTH AND FINAL PROFESSIONAL EXAMINATION.**

Candidates shall be required, before admission to the Final Examination, to produce evidence of having passed the Third Professional Examination, also certificates of having subsequently attended—

Medico-Chirurgical Hospital, nine months, as extern pupil.

Or six months as resident pupil, unless a certificate to that effect has been accepted in the third year.

Winter Courses. {Dissections and Demonstrations.  
                          {Midwifery.

Certificates shall also be required of having attended a Midwifery Hospital, or Maternity, for six months, and of having been present at thirty labours. (May be attended in the third or fourth year, winter or summer.)

Operative Surgery. (Between 1st of April and 1st of October, in either the third or fourth year.)

**FEEs.**

The fee for this examination shall be £5 5s

Candidates shall be examined in—

1. Surgery—Clinical, Ophthalmic, and Operative, with Surgica Anatomy.
2. Medicine.
3. Midwifery and Diseases of Women.
4. Medical Jurisprudence.

**ORDER OF EXAMINATION.**

The candidates shall be examined in numerical order, and the examination shall occupy four days.

**FIRST DAY (Printed Questions).**

Two hours shall be allotted to this examination. Three questions each in Medicine, including the writing of prescriptions, Midwifery and Diseases of Women, and Medical Jurisprudence, shall be given; two only, on each subject, to be answered.

**SECOND DAY (Oral).**

The Oral Examination shall occupy half an hour, and is conducted at two tables.

Midwifery and Diseases of Women, } 15 minutes each.  
Medicine, }

**THIRD DAY, MORNING (Ophthalmic Surgery).**

Having passed the Oral Examination, the candidate shall, on the succeeding day, be submitted to examination in Clinical Ophthalmology, at the Hospital to which he may be directed.



### THIRD DAY (Clinical).

The Clinical Examination shall be conducted in the manner hereinafter set forth.

### FOURTH DAY (Operative Surgery).

This examination shall be conducted by the four Surgical Examiners in the manner hereinafter set forth.

### GENERAL REGULATIONS.

Candidates for any examination shall return their names to the Registrar of the College, and lodge their fees and certificate Schedule, at least fourteen days before the day specified for examination; and no candidate can, under any consideration, be admitted who has not so returned his name. Each candidate, on his first enrolment, shall have a number assigned to him, by which alone he is recognised during all the subsequent examinations.

The Letters Testimonial of the College shall not be granted to any candidate at an earlier period than forty-five months subsequent to his registration as a medical student; or to any one who has not attained the age of twenty-one years.

### PAYMENT OF EXAMINATION FEES.

All Fees, whether for Matriculation or Examination, shall be paid into the Bank of Ireland to the credit of the College, and the Bank receipt for such lodgment must be produced to the Registrar.

### REJECTED CANDIDATES.

No candidate shall present himself at any of the examinations on any day unless he has satisfied his Examiners on the previous day; a candidate who has passed any day's examination shall get credit for such day on condition that he has passed in *all* the subjects of that day's examination.

### RE-EXAMINATION FEES AND REFUNDS TO REJECTED CANDIDATES.

Every candidate rejected at any of the stated examinations on applying for re-examination, shall be required to pay to the College, in addition to the regular fees, the sum of three guineas for each such re-examination. These amounts shall be deducted from the sum returnable, under the Old Scheme, to the candidate in case of rejection, or allowed to him in case he presents himself more than once.

No Fees are refunded under the New Scheme.

Fees will be refunded only to the person who lodged them, but students will be required to produce a written authority from their parents or guardians to receive the amount.

### EXEMPTIONS FROM EXAMINATION.

Licentiates of a College of Physicians or Graduates in Medicine of a University recognised by the College, and Candidates who have passed the examinations required for such qualifications, shall be entitled to be examined only in General and Descriptive Anatomy, Histology, Physiology, the Theory and Practice of Surgery, Operative Surgery, and Surgical Appliances.

Candidates who produce evidence of having passed the Primary Examination of the Royal College of Surgeons of England are entitled to be exempted from the Junior Class Examination, under the Old Scheme,

or from the First and Second Professional Examinations, under the New Scheme, but they must produce certificates of all the courses required for the examinations for which they present themselves.

No such exemptions from examination are granted in respect of any *part* examination which may have been passed.

By the 15th clause of the Supplemental Charter of 1885, the Council may admit to the Letters Testimonial or Fellowship, without examination, on such conditions, and on the payment of such respective fees, as the Council may determine, the Members and Licentiates of the Royal College of Surgeons of England, and the Royal College of Surgeons in Edinburgh, provided they shall be at the time in the *bona fide* practice of the profession of a Surgeon in Ireland.

#### SPECIAL EXAMINATIONS.

Candidates seeking a Special Examination must make application to the Council (and show special cause), and, if admitted thereto, must pay five guineas in addition to the fees of the examination which they seek.

The subjects for examination, the fees, and the mode of carrying out a Special Examination, shall be the same as those above laid down for the Scheme under which the candidate presents himself.

#### CERTIFICATION OF STUDY BY SCHEDULE.

The candidate shall present the courses of study to the College, in the form of a Schedule, on which the exact number of his attendances shall be certified.

The candidate shall see that the entries in his schedule are accurately made, and are duly attested by the Lecturers of the School and by the Registrar of the Hospital which he has attended. He shall present the schedule to the College Registrar, together with the receipt for lodgment of the necessary examination fees, in the Bank of Ireland, to credit of the College, together with any other document set forth in the schedule as necessary; and he shall, then and there, in presence of the Registrar, sign the Declaration which appears thereon. If the candidate is prevented by absence from Dublin from presenting himself at the College, the Declaration must be witnessed by the Registrar of his School or Hospital, who will countersign the same. Each schedule so lodged shall be preserved by the College as evidence that its Licentiate has fulfilled the course of study enjoined by the regulations.

#### DECLARATION TO BE TAKEN BY LICENTIATES.

The Candidates entitled to receive their Letters Testimonial are required to attend a meeting of the Council specially convened for that purpose, upon such day as shall be notified to them, and to take the following Declaration prescribed by the provisions of the Supplemental Charter:—

“I, A. B., do solemnly and sincerely declare and promise that I will observe and be obedient to the Statutes, By-laws and Ordinances of the Royal College of Surgeons in Ireland, and that I will, to the utmost of my power, endeavour to promote the reputation, honour, and dignity of the said College.”

They shall then sign the College Roll, and receive their Diplomas.

The President and Council are authorized by the Charters:—

“If it shall, at any time, appear that any Licentiate or Fellow of said College shall have obtained his Letters Testimonial or his Diploma respectively, by any fraud, false statement, or imposition, or that either before or after obtaining such his Letters Testimonial or Diploma he shall have wilfully violated any By-law, Rule, or regulation of the said College, then and in every such case, and after such previous notice to, and such

hearing of, such Fellow or Licentiate, as under the circumstances the Council of the said College shall think proper, it shall be lawful for the Council to pass such judgment or censure upon the person so offending, or (in case it should seem expedient) to recall and to declare the Letters Testimonial or Diploma respectively, of such Fellow or Licentiate, to be void, and thereupon every such Licentiate or Fellow shall accordingly cease to be a Licentiate or a Fellow of the said College, as the case may be."

An enrolment fee of one guinea is payable to the Registrar of the College on the issue of the Diploma.

#### CONDUCT OF THE LETTERS TESTIMONIAL EXAMINATIONS.

The following regulations apply to the Examinations both under the New and Old Schemes:—

The Written Examinations of each class shall take place on the first day of the examination of the class.

The Oral Examination shall commence on the succeeding day or the day but one after, and be continued from day to day, from four o'clock until seven, p.m., and four candidates shall be examined in each hour—being called to examination in numerical order. Four separate tables shall be appropriated to the Examination, and at each table two examiners shall examine the candidate for one quarter of an hour. Each Examiner shall, in his turn, examine each successive candidate, while the second Examiner notes the questions, and each Examiner shall express his opinion of the answering by a separate number, which shall be handed, on paper, to the presiding chairman. The mean of the two numbers shall be the candidate's mark for that table. When the examinations are over, the whole Court of Examiners shall assemble to count the marks awarded to each candidate.

#### WRITTEN EXAMINATION.

*Anatomy.*—Twelve printed questions in Anatomy shall be given to each candidate—answers to four of them only being required. Two hours shall be devoted to the Examination.

*Physiology.*—Four questions in Physiology, three in Materia Medica, and three in Chemistry, shall be given. The candidate shall, at least, answer two questions in Physiology, one in Materia Medica, and one in Chemistry.

*Surgery.*—Four hours shall be devoted to the Examinations, commencing at 10 a.m. Nine printed Surgical questions shall be given, answers to six of them only being required.

*Practice of Medicine.*—Three hours shall be devoted to the Written Examination in Practice of Medicine, Medical Jurisprudence, and Prescriptions, commencing at 4 p.m. Three Written questions are given in Practice of Medicine, three in Medical Jurisprudence, and three in Prescriptions, answers to six of them only being required.

#### DISSECTIONS AND HISTOLOGY.

Subjects shall be provided for this Examination, two Examiners and six candidates being allotted to each subject; the Examination commences at 10 a.m. of the day succeeding that on which the Oral Examination of the class has been completed. Each candidate shall be first required to make a dissection of a region allotted to him; half an hour, at least, being allowed him for this purpose. He shall be then examined on the Anatomy of that part, as well as upon the regions dissected by other candidates. Two Examiners conjointly shall conduct this part of the Examination. The candidate shall be next examined on preparations under the College microscopes by two of the Examiners.

Slides of different objects shall be placed under the microscopes, and five minutes shall be allowed each candidate to examine them, before being questioned upon them.

#### CLINICAL EXAMINATION.

At the Clinical Examination the candidates shall attend at the College on the day of the Examination, and draw from a ballot box, provided for the purpose, the name of the Hospitals in which they are to be examined, but no candidate shall be examined in a Hospital at which he was in attendance during the session preceding his admission to Examination.

Each candidate is required to make a diagnosis in at least two surgical cases, examining the patients in the presence of the Examiners. He shall be questioned upon these cases, and upon others, if necessary. He shall also take notes of another case, to test his accuracy in case taking. He shall be required to bandage, adjust some surgical appliance, or perform some clinical surgical duty.

#### OPERATIVE SURGERY.

This Examination shall be conducted by the four Surgical Examiners. The questions shall be written upon cards, and deposited in the balloting box, from which each candidate shall draw a card and proceed to perform the operation thereon indicated. He shall be questioned upon this, and then perform a minor operation. He shall be also tested on his knowledge of Surgical Instruments and Appliances.

#### MATRICULATION AS PUPIL OF THE COLLEGE.

All persons proceeding to the study of Medicine may, if approved by the Council, become Matriculated pupils of the College, and, having done so, will enjoy the following privileges:—1. They will, if matriculated before the Preliminary Examination, be exempt from the fee payable for it. 2. They will be permitted to study in the Library and Museums of the College. 3. They will be entitled to attend the lectures on Comparative Anatomy, and to receive the certificate thereof without fee.

The fee for Matriculation is £5 5s., which, however, is allowed to the pupil in the fee payable for his first examinations.

No candidate can be admitted to any examination for the College diplomas until he shall have been matriculated.

#### PRELIMINARY EXAMINATIONS accepted by the COLLEGE.

All examinations in General Education recognised by the General Medical Council (a list of which will be found in the Register of Medical Students) are accepted by the College in lieu of the Preliminary Examination held by them. Amongst these equivalent examinations the following are included:—

- a. Dublin University.—The Public Entrance Examination.
- b. Royal University of Ireland.—The Matriculation Examination.
- c. The Queen's Colleges.—The Matriculation Examination.
- d. The Preliminary Examination of the Apothecaries' Hall of Ireland.
- e. The Intermediate Examination.—A pass in any Grade in the required subjects.
- f. The Preliminary Examination of the College of Physicians and Surgeons of Edinburgh.

g. The Preliminary Examination of the Faculty of Physicians of Glasgow.

h. The First and Second Class Certificates of the College of Preceptors, if all the required subjects be included therein.

i. The Examinations for Commissions in Her Majesty's Service, Military, Naval, and Civil, if all the required subjects be included therein.

Candidates who have not passed in *the whole* of the required subjects at any of the accepted examinations, are not permitted to present themselves in the deficient subjects at the College Preliminary Examination, but must pass the entire examination.

#### REGISTRATION as a MEDICAL STUDENT.

The General Medical Council requires that students shall be entered upon the Students' Register *after* having passed the Preliminary Examination, and commenced the study of Medicine. This registration is not undertaken by the College; but the student must apply to the Medical Registrar, 35, Dawson-street, Dublin, in order that he may be so entered. No fee is payable for registration.

The following is the form of application for such registration, and it can be obtained of the Registrar of the College or from the Secretary of any Medical School or Hospital:—

#### FORM OF APPLICATION FOR REGISTRATION as a MEDICAL STUDENT.

I hereby apply to be Registered as a Student in Medicine, in conformity with the Regulations of the General Council of Medical Education and Registration of the United Kingdom, for which purpose I submit the following particulars:—

APPLICANT'S NAME. (To be written in words at length).		Preliminary Examinations, with date thereof. ( <i>Not in initial letters.</i> )	Place and Date of Commencement of Medical Study, as certified by a Master, or a Teacher or an Official in a Medical School or Hospital.
Surname.	Christian Name (in full).		
		Date, _____, 188	Place, _____ Date, _____, 188
Date of Registration.	<i>Applicant's Signature (in full)</i> _____ <i>Applicant's Address</i> _____ <i>Date of Application,</i> _____		

#### CERTIFICATE OF COMMENCEMENT OF MEDICAL STUDY.

I hereby certify that \_\_\_\_\_ commenced the Study of Medicine in\* \_\_\_\_\_, on the \_\_\_\_\_ day of \_\_\_\_\_ 188

\* Here insert name of School or Hospital, or Place of Apprenticeship, as the case may be.

*Signature of Master, Teacher, or Official* } \_\_\_\_\_  
*in a Medical School or Hospital,* }  
*Place of Date* \_\_\_\_\_

\*\* The word Master or Teacher shall be held to include any Registered Practitioner whose Pupil the Applicant may be at the time.

The above Form of Application, duly and legibly filled up, and accompanied by a Certificate that the Applicant has passed a Preliminary Examination, as required by the General Medical Council, must be forwarded (post paid) to the Registrar of the Branch Council for Ireland, 35, Dawson-street, Dublin, accompanied by a stamped and directed envelope for the return of the Certificate.

## DEGREES IN LAW.

## LL.B. DEGREE.

All Candidates for this degree must be Graduates in Arts of the University.

Candidates may present themselves for the examination for this degree after the lapse of one Academical year from the time of obtaining the degree of B.A.

Candidates must give notice in writing to the Secretaries of their intention to present themselves, and must pay the prescribed fee of £3, at least one month previous to the Examination.

Candidates at this examination will be required to answer in such of the following subjects, as may be from time to time prescribed :—

- I. Civil Law.
- II. Jurisprudence.
- III. Constitutional Law.
- IV. Law of Property and Principles of Conveyancing.
- V. Common and Criminal Law.
- VI. Equity.
- VII. Pleading, Practice, and Evidence.

The course for the present will be :—

## PASS.

- Williams.—Principles of the Law of Real Property.  
 Williams.—Principles of the Law of Personal Property.  
 Snell.—Principles of Equity.  
 Broom.—Commentaries on the Common Law (Edition 1880.)  
 Best.—On Evidence.  
 Maine.—Ancient Law.

## HONORS.

In addition to the Pass Course :—

- White and Tudor.—Leading Cases in Equity, Vol. I.  
 Smith.—Leading Cases at Law, Vol. I.  
 Broom.—Maxims.

## LL.D. DEGREE.

Candidates may present themselves for the examination for this degree after the lapse of one Academical year from the time of obtaining the degree of LL.B.

Candidates must give notice in writing to the Secretaries of their intention to present themselves, and must pay the prescribed fee of £5, at least one month previous to the examination.

Candidates at this examination will be required to answer in a further course, to be from time to time prescribed, in the same subjects as have been fixed for the LL.B. Examination.

The course for the present will be :—

In addition to the course for the Honour Examination for the LL.B. Degree :—

- White and Tudor.—Leading Cases in Equity, Vol. II.  
 Smith.—Leading Cases at Law, Vol. II.

The Senate may, at the Examination for the Degree of LL.B., award the following Prizes :—

- One Prize of £50.  
 One Prize of £25.

## UNIVERSITY OF LONDON.

All Candidates for Degrees in the University of London are required to pass the General Matriculation Examination.

## DEGREE IN THE FACULTY OF ARTS.

Candidates for the Degree of B.A. are required to pass the Intermediate Examination in Arts, after the lapse of one Academical year from the date of the Matriculation Examination, and the Degree Examination after the lapse of one year from the date of the Intermediate Examination.

Candidates for the Degree of M.A. are admitted to the examination after the lapse of an Academic year from the date of the B.A. Examination.

Candidates for the Degree of D.Lit. must have obtained the Degree of B.A. in the University, and will then be admitted to the two examinations for the Degree of D.Lit., at intervals of at least one Academical year from the date of the B.A. Examination and of the First Examination for the D.Lit. respectively.

Candidates will be admitted to the Intermediate B.Sc. Examination after the expiration of one Academical year from the date of the Matriculation Examination, and to the B.Sc. Examination after the lapse of one further Academical year. In general, two years must elapse from date of the last examination before the Candidate can be admitted to the examination for the Degree of D.Sc.

## DEGREES IN THE FACULTY OF LAW.

Candidates for the Degree of LL.B. must pass the Intermediate and the Degree Examination. No Candidates will be admitted to the Intermediate LL.B. within twelve months from the date of his Matriculation Examination, nor to the LL.B. Degree Examination within less than two years from the date of his Intermediate LL.B. Examination, unless he have already graduated in one of the Faculties of the University, in which case he may be admitted after the lapse of one year.

No Candidate under the age of thirty will be admitted to the examination for the Degree of LL.D. until after the expiration of two Academical years from the date of his LL.B. Examination.

## DEGREES IN THE FACULTY OF MEDICINE.

Every candidate for the Degree of M.B. is required to pass the following, in addition to the Matriculation Examination, viz. :—

- (i.) The Preliminary Scientific Examination.
- (ii.) The Intermediate M.B. Examination.
- (iii.) The Examination for the Degree of M.B.

No candidate shall be admitted to (i.) until he has passed the Matriculation Examination, and completed his seventeenth year.

No Candidate shall be admitted to (ii.) within one year from the date at which he passed (i.) ; he must further have completed his nineteenth

year, and produce certificates of having attended certain lectures at a recognised Medical School, during two years subsequent to the date of his matriculation.

No Candidate shall be admitted to (iii.) within two Academical years from the time of his passing (ii.); and unless he shall produce certain certificates, for which see Calendar of University of London.

A Candidate for the Degree of B.S. (Bachelor of Surgery) must have passed the examination for the Degree of M.B., and produce certain required certificates. Candidates for the degree of M.S. (Master in Surgery) must have taken the Degree of B.S. at least two years previously, and produce certain required certificates. Candidates for the Degree of M.D. must have taken the Degree of M.B. at least two years previously, and must produce certain required certificates.

For the details of the subjects of the M.A. Examination, and for the regulations regarding the Honour Examination connected with them, and for certain exceptions that may be granted in particular cases, see the Calendar of the University of London.

#### REGULATIONS for Entry of CANDIDATES for COMMISSIONS in the MEDICAL DEPARTMENT of the ROYAL NAVY.

Admiralty, March 1885.

1. Every Candidate for admission into the Medical Department of the Royal Navy must be not under twenty-one nor over twenty-eight years of age on the day of the commencement of the Competitive Examination. He must produce an extract from the Register of the date of his birth; or, in default, a declaration made before a Magistrate, from one of his parents or other near relative, stating the date of birth. He must also produce a certificate of moral character, and a recommendation, signed by a Clergyman or Magistrate, to whom he has been for some years personally known, or by the President or Senior Professor of the College at which he was educated.

2. He must be registered, under the Medical Act in force, as possessing two diplomas or licences recognised by the General Council, one to practice in Medicine, and the other Surgery, in Great Britain and Ireland.

3. He must sign a declaration that he is a British subject, the son of parents of unmixed European blood, that he labours under no mental or constitutional disease or weakness, or any other imperfection or disability which may interfere with the most efficient discharge of the duties of a Medical Officer in any climate; and that he does not hold, and has never held any commission or appointment in the public services.

He must also declare his readiness to engage for general service at home or abroad as required.

He must be free from organic or other disease, and his physical fitness will be determined by a Board of Medical Officers, who are to certify that his vision comes up to the required standard, which will be ascertained by the use of Snellen's Test Types.

The certificates of registration, character, and birth, must accompany the Declaration, which is to be filled up and returned as soon as possible, addressed as above.



4. Candidates will be examined by the Examining Board in the following compulsory subjects, and the highest number of marks attainable will be distributed as follows :—

	Marks.
a. Anatomy and Physiology, . . . . .	1,000
b. Surgery, . . . . .	1,000
c. Medicine, including Therapeutics, the Diseases of Women and Children, . . . . .	1,000
d. Chemistry and Pharmacy, and a practical knowledge of drugs . . . . .	1,000

*N.B.*—The examination in Medicine and Surgery will be in part practical, and will include operations on the dead body, the application of surgical apparatus, and the examination of medical and surgical patients at the bedside. The examination in chemistry will be limited to the elements of the science, and to its application to medicine, pharmacy, and practical hygiene.

No Candidate shall be considered eligible who shall not have obtained at least *one-third* of the marks obtainable in each of the above *compulsory subjects*.

5. Candidates may be examined in the following voluntary subjects, for which the maximum number of marks obtainable will be :—

	Marks.
French and German (150 each), . . . . .	300
Natural Sciences, . . . . .	300

A number less than one-third of the marks obtainable in each of these *voluntary subjects* will not be allowed to count in favour of the Candidate who has qualified in the *compulsory subjects*.

The knowledge of modern languages being considered of great importance, all intending competitors are urged to qualify in French and German.

The natural sciences will include comparative anatomy, zoology, natural philosophy, physical geography, and botany, with special reference to *Materia Medica*.

6. The appointments announced for competition will be filled up from the list of qualified Candidates arranged in the order of merit, as finally determined by the total number of marks each has obtained in both the compulsory and voluntary subjects.

7. Successful Candidates, immediately after passing the examination, will receive Commissions as Surgeons in the Royal Navy, and will undergo a course of practical instruction in Naval Hygiene, &c., at Haslar Hospital.

#### REGULATIONS as to PAY, RETIREMENT, &c., of MEDICAL OFFICERS.

The Lords Commissioners of the Admiralty, having had under their consideration the position of the Medical Officers of the Navy, are pleased, under the authority of Her Majesty's Order in Council of 1st April, 1881, to establish the following Regulations, modifying existing rules, to take effect from that date, except as regards Surgeons entered since 1st January, 1881, in whose cases they will apply from date of entry.

##### *Numbers.*

1. The active list of Medical Officers will not exceed—

Inspectors and Deputy Inspectors-General of Hospitals and Fleets (of whom not more than four to be Inspectors-General),	16
Fleet Surgeons, Staff Surgeons, and Surgeons,	400

*Promotion.*

2. An Inspector-General of Hospitals and Fleets will be selected from amongst Deputy Inspectors-General who have completed in that rank—

Three years' foreign service ; or

Four years' mixed service, of which not less than two have been abroad ; or

Five years' home service in such appointments as preclude foreign service provided they have not refused to go abroad if called on to do so.

3. A Deputy Inspector-General of Hospitals and Fleets will be selected for ability and merit, from amongst Fleet Surgeons.

4. (a.) The rank of Fleet Surgeon will be granted to Staff Surgeons on completion of twenty years' full pay service, if recommended for advancement by the Medical Director-General, subject to their Lordships' approval.

(b.) Special promotion from the rank of Staff Surgeon to that of Fleet Surgeon will be made, at their Lordships' discretion, in cases of distinguished service or conspicuous professional merit. Such promotions will be exceptional, and will not exceed the rate of one in two years ; the total number at any one time of Fleet Surgeons holding that rank by such promotions will not exceed six.

(c.) A Staff Surgeon specially promoted to that rank under clause 5 (b) will be eligible, if recommended by the Medical Director-General for promotion to the rank of Fleet Surgeon after eight years' full pay service as Staff Surgeon.

5. (a.) Rank as Staff Surgeon will be granted, subject to their Lordships' approval, to Surgeons at the expiration of twelve years from the date of entry, provided they are recommended by the Medical Director-General, and have passed such examination as may be required after completion of eight years, from the date of entry, in the rank of Surgeon.

(b.) Special promotions will be made, at their Lordships' discretion, to the rank of Staff Surgeon, in cases of distinguished service or conspicuous professional merit. Such promotions will be exceptional, and not exceed the rate of one a year. The total number at any one time of Staff Surgeons holding that rank by such special promotions will not exceed eight. No officer will be so promoted unless he passes the examination prescribed for other surgeons, but in such a case the requirement of eight years' time in rank of surgeon will be dispensed with.

(c.) When a Surgeon's promotion to the rank of Staff Surgeon has been retarded by failure to pass the qualifying examination he will, should he pass and be promoted, be dealt with as follows :—

He will be granted the seniority as Staff Surgeon he would have received had he passed in ordinary course.

He will reckon service for increase of full and half pay only from the date of appointment to full pay as staff surgeon.

If on half pay, or if placed on half pay when promoted, he will receive the lowest rate of half pay of the new rank from the date of passing the qualifying examination.

Where delay in passing the qualifying examination may be due to unavoidable circumstances special consideration will be given.

(d.) The seniority of surgeons on entry will be determined by the order of merit in which they pass the competitive examination in London.

*Relative Rank.*

6. Existing Regulations will remain in force, with the exception that,

in all matters wherein the army and army administration are concerned, fleet surgeons will rank with and as brigade surgeons.

*Full Pay and Allowances.*

7. The under-mentioned scale of full pay is substituted for that hitherto in force :—

	Rank.	Daily. £ s. d.	Yearly. £ s. d.
Surgeon :			
On entry,		0 11 6	209 17 6
After four years full pay service,		0 13 6	246 7 6
After eight " " "		0 15 6	282 17 6
Staff Surgeon :			
On promotion,		1 1 0	383 5 0
After four years full pay service in rank,		1 4 0	438 0 0
Fleet Surgeon :			
On promotion,		1 7 0	492 15 0
After four years full pay service in rank,		1 10 0	547 10 0
After eight " " "		1 13 0	602 5 0
Deputy Inspector General,		2 2 0	766 10 0
Inspector General,		2 15 0	1,003 15 0

On first appointment to the service, medical officers will receive full pay from date of appointment, but subject to the provisions of Art. 1,255, clause 2, of the Queen's Regulations, 1879.

8. The allowance of 5*s.* a day, in addition to full pay, at present granted to the fleet surgeon of a flag ship bearing the flag of a commander-in-chief on a foreign station, will be given to the senior medical officer of such ship, being a fleet or staff surgeon, and an allowance of 2*s.* 6*d.* a day to the senior medical officer, being a fleet or staff surgeon, of the ship of a commodore or of a senior officer commanding a foreign station.

Medical officers conducting the course of instruction at Haslar Hospital will receive the following allowances :—

The senior officer employed upon this duty,	£150 a year.
The junior officer assisting,	£50 a year.

9. The hospital allowances for naval medical officers at home and abroad, in lieu of provisions, for themselves and servants, and for fuel and light, are as follows :—

	At home. £	Abroad. £
Inspectors-general of hospitals,	85	130
Deputy inspectors-general,	67	112
Fleet surgeons and staff surgeons,	53	112
Surgeons,	39	108

10. The travelling allowances, extra pay, lodging money, and compensation for losses are fixed for naval medical officers according to their relative rank in the service.

*Half Pay.*

11. The under-mentioned scale of half pay is substituted for that hitherto in force :—

	Rank.	Daily. £ s. d.	Yearly. £ s. d.
Surgeon :			
Under two years full pay service,		0 6 0	109 10 0
A two years full pay service,		0 7 0	127 15 0
" four " "		0 8 0	146 0 0
" six " "		0 9 0	164 5 0
" eight " "		0 10 0	182 10 0
" ten " "		0 11 0	200 15 0
Staff surgeon :			
On promotion,		0 12 0	219 0 0
After two years full pay service in rank,		0 13 0	237 5 0
" four " "		0 14 0	255 10 0
" six " "		0 15 0	273 15 0

	Rank.	Daily.		Yearly.	
		£	s. d.	£	s. d.
Fleet surgeon :					
On promotion,		0	17 0	310	5 0
After two years full pay service in rank,		0	18 0	328	10 0
" four       "       "		0	19 0	346	15 0
" six       "       "		1	0 0	365	0 0
Deputy inspector-general :					
On promotion,		1	5 0	456	5 0
After two years full pay service in rank,		1	7 0	492	15 0
" four       "       "		1	9 0	529	5 0
Inspector-general,		1	18 0	693	10 0

*Retirement.*

12. Compulsory retirement will be as follows :—

Inspector and deputy inspector general of hospitals and fleets.	{ At the age of 60, or at any age, if he has not served for five years. }	{ To be retired irrespective of age if found physically unfit for service. }
Fleet surgeon, staff surgeon, and sur- geon.		

13. Voluntary retirement and withdrawal will be allowed as follows:—

(a.) Every officer will have the option, subject to their Lordships' approval, of retiring after 20 years' full pay service on the scale of retired pay provided in paragraph 14, or with a gratuity on the scale provided in that paragraph if not eligible for retired pay.

(b.) At the expiration of 8, 12, or 16 years' full pay service every officer will be permitted, subject to their Lordships' approval, to withdraw from the naval service, receiving a gratuity on the scale laid down in paragraph 14.

The name of an officer so withdrawing will be removed from the lists of the Navy, with which all connexion will then be severed.

(c.) Voluntary retirement and withdrawal will be allowed as a rule only when an officer is unemployed or serving at home.

(d.) Applications from officers, not entitled to retire or withdraw, to resign their commissions will receive every consideration.

14. Gratuities and retired pay will be awarded on retirement and withdrawal on the under-mentioned scale :—

Rank.	Gratuities.		Daily.		Yearly.	
	£	s. d.	£	s. d.	£	s. d.
Surgeon and Staff Surgeon :						
After 8 years' full pay service,	1,000	0 0	—	—	—	—
" 12       "       "	1,500	0 0	—	—	—	—
" 16       "       "	2,250	0 0	—	—	—	—
Fleet Surgeon :						
After 20 years' service (including proportion of half-pay time),	—	—	*1	0 0	365	0 0
After 24 years' service (including proportion of half-pay time),	—	—	*1	2 6	410	12 6
After 27 years' service (including proportion of half-pay time),	—	—	*1	5 0	456	5 0
After 30 years' service (including proportion of half-pay time),	—	—	*†1	10 0	547	10 0
Deputy Inspector-General,	—	—	1	15 0	638	15 0
Inspector-General,	—	—	2	0 0	730	0 0

\* To obtain this rate an officer must hold the commission of Fleet Surgeon.

† Or on compulsory retirement at the age of 55.

15. An officer retired with less than 20 years' service on account of disability contracted in and attributable to the service will receive the half pay of his rank, or, with the consent of their Lordships, a gratuity on the scales given in paragraphs 14 and 16b, but such officer will not

be entitled to receive any special compensation for the disability in addition to the gratuity as above.

16. An officer retired with less than 20 years' service on account of disability contracted in but not attributable to the service will receive:—

(a.) If he has over 8 years' full-pay service, either a gratuity on the scale given in paragraph 14, or half-pay, according as their Lordships think fit.

(b.) If he has less than 8 years' full-pay service, such gratuity as their Lordships think fit, not exceeding the rate of £125 for each year of full-pay service.

17. Under circumstances other than those specified in paragraphs 15 and 16, an officer retired with less than 20 years' service will not be allowed half pay or retired pay, but will receive a gratuity on the scale laid down in paragraph 14 if he has eight years' full-pay service, and on that provided in paragraph 16 (b) should his full-pay service not amount to eight years.

18. Every officer on the active list on 1st January, 1881, will, if compulsorily retired, be allowed at his option to receive half pay, but subject to the provisions of the Orders in Council for reduction of half pay and retired pay.

19. The power vested in their Lordships of granting reduced rates of half pay and retired pay in cases of misconduct is extended to the award of gratuities on retirement, and the gratuity awarded will be reduced to such an amount as is thought fit.

20. An officer retiring after 20 years' full-pay service will be eligible, if recommended by the Medical Director General for distinguished or meritorious service, to receive a step of honorary rank, such step to be awarded at their Lordships' discretion, and not to confer any claim to increase of retired pay or of widows' pension.

21. All retired officers will be liable, till the age of 55, to serve in time of declared national emergency in a rank not lower than that held on retirement.

This liability will not exist in cases of withdrawal on the conditions specified in paragraph 13 (b).

22. Retired officers will receive special consideration as regards appointments on shore connected with the Admiralty now filled by civilians.

23. Officers compulsorily retired at the age of 55 under the provisions herein stated, instead of at 60, being allowed to receive the improved rates of retired pay specified in paragraph 14, will not be entitled to any further compensation.

#### *Definition of Service.*

24. Service will reckon as follows:—

(a.) When borne on the books of any of H.M. ships or vessels, or when employed in naval hospitals, marine divisions, or other civil establishments at or under the Admiralty, as full-pay service for all purposes, but subject to the provisions in paragraph 2 as regards promotion.

(b.) Service under any other department which may be declared by their Lordships, with the consent of the Lords Commissioners of H.M. Treasury, to be for this purpose naval service, and service on commissions or committees on naval matters of importance, will be full-pay service for such purposes and to the extent to which it has hitherto reckoned as service under the provisions of Art. 216 of the Queen's

Regulations, 1879, and those of Her Majesty's Orders in Council of 22nd February, 1870, and 18th May, 1870.

(c.) Time on half pay will count as one-third service for increase of retired pay, but not for any other purpose.

*Widow's Pension.*

25. When an officer retires, or withdraws, *on a gratuity*, his widow and children will have no claim to pension or compassionate allowance.

*Miscellaneous.*

26. An Inspector-General of hospitals and fleets, when taking passage in any of H.M. ships, will be entertained at the captain's table.

27. Cabins will be appropriated to medical officers according to rank and duties.

28. Special regulations have been made as regards the mess expenses of medical officers appointed to the several divisions of Royal Marines for limited periods.

EXTRACTS from the REGULATIONS for the APPOINTMENT of OFFICERS in the ARMY MEDICAL DEPARTMENT.

A.

1. The Officers of the Army Medical Department shall be divided into two classes—viz., Class A, and Class B.

Class A shall consist of those who entered the Army Medical Department before the 28th April, 1876; those who shall enter the Army Medical Department after the date of this Our Warrant; and those of Class B who may be permitted under Article 2 to exchange their terms of service for those of Class A.

Class B shall consist of those who entered the Army Medical Department on or after the 28th April, 1876, and before the date of this Our Warrant, and who are not transferred to Class A under Article 2.

2. Within two years from the date of this Our Warrant, a Medical Officer serving in Class B may, upon his application being recommended by the Director-General of the Army Medical Department, and with the concurrence of Our Commander-in-Chief, be transferred to Class A. by our Secretary of State. The pay of such Officer shall not be reduced while he continues to serve, below the rate he was receiving in Class B at the time of transfer to Class A.

## RANK AND PAY.

3. The ranks and rates of pay of the Officers of the Army Medical Department shall be as follows :—

	Class A.	Class B.	Class A and B.
	Daily	Daily	Charge Pay.
	£ s. d.	£ s. d.	
<b>SURGEON-GENERAL,</b>	2 15 0	2 0 0	
After 25 years' service,	—	2 5 0	
" 30 years' service,	—	2 7 0	
" 35 years' service,	—	2 10 0	
At Head-Quarters,	Yearly 1,300 0 0	Yearly 1,200 0 0	
<b>DEPUTY SURGEON-GENERAL,</b>	Daily 2 0 0	Daily 1 10 0	
After 25 years' service,	—	1 12 0	The Principal Medical Officer of an Army in the Field consisting of 10,000 men and upwards, £1, daily; of 5,000 men and upwards, 15s. daily; of less than 5,000, 10s. daily. The Principal Medical Officer of a Colony where the number of Commissioned Officers and enlisted men is 1,500 and upwards, 5s. daily.
" 30 years' service,	—	1 15 0	
" 35 years' service,	—	1 17 0	
At Head-Quarters,	Yearly 900 0 0	Yearly 850 0 0	
<b>BRIGADE SURGEON,</b>	Daily 1 10 0		
After 5 years in the rank,	1 13 0		
At Head-Quarters,	Yearly 750 0 0		
<b>SURGEON-MAJOR,</b>	Daily 1 0 0	Daily 1 0 0	
After 15 years' service,	1 2 6		
" 5 years' service as such,	—	1 5 0	
" 20 years' service,	1 5 0		
" 25 years' service,	1 7 6		
At Head-Quarters,	Yearly 650 0 0	Yearly 600 0 0	
<b>SURGEON,</b>	200 0 0	250 0 0	
After 5 years' service,	250 0 0		
After 10 years' service,	Daily 0 15 0	Daily. 0 17 6	
<b>SURGEON ON PROBATION,</b>	0 8 0		

4. The relative rank of officers of the Army Medical Department shall be as follows :—

As Major-General,	{ Director-General.
„ Colonel,	{ Surgeon-General.
„ Lieutenant-Colonel,	{ Deputy Surgeon-General.
„ Major,	{ Brigade Surgeon.
„ Captain,	{ Surgeon-Major, after 20 years' service.
„ Lieutenant,	{ Surgeon-Major of less than 20 years' service.
	{ Surgeon.
	{ Surgeon on Probation.

5. The pay of Medical Officers shall be issued monthly in arrear.

## APPOINTMENT.—FIRST APPOINTMENTS.

6. Every candidate for appointment in the Army Medical Department shall possess two diplomas or licences, recognized by the General Medical Council, one to practice medicine, and the other surgery, and shall be registered under the Medical Act in force in the United Kingdom at the time of his appointment.

7. A candidate shall not exceed the age of twenty-eight years on appointment as a Surgeon on probation.

8. A public and open competition shall be held twice in the year for the admission of qualified candidates as probationers. The number of appointments so competed for shall be not less than half of the number

of vacancies which shall have arisen in the last completed half-year ending on the 30th June or 31st December.

9. Not less than half the number of vacancies shall be filled up by competition, and it shall be competent for our Secretary of State to fill up the remaining number from such qualified candidates as may be proposed by the governing bodies of public schools of medicine in our United Kingdom or in our Colonies as he may think proper. Every candidate so proposed shall be certified by the governing body proposing him to be duly qualified, according to a standard to be laid down by our Secretary of State, and shall be approved by the Director-General.

10. Our Secretary of State shall from time to time fix the order of precedence and the proportion in which the several schools of medicine shall be offered the nomination of candidates.

11. A Surgeon on probation shall, on appointment, be sent to some large station for instruction in Ambulance and Hospital Corps duties, until the commencement of the next course of study at the Army Medical School. After passing through such course at the Army Medical School as our Secretary of State shall decide, the Surgeon on probation, after passing a qualifying examination in the military medical subjects there, and satisfying the Director-General that he is a person of proper skill, knowledge, and character for permanent appointment in the Army Medical Department, shall be commissioned as Surgeon.

[For further information regarding promotion, retirement, allowances, &c., see Warrant, dated 2nd December, 1879.]

A copy of this Warrant can be seen in the Registrar's Office.]

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#### REGULATIONS for the EXAMINATION of CANDIDATES for the APPOINTMENT of SURGEON in HER MAJESTY'S INDIAN MEDICAL SERVICE.

1. All natural-born subjects of Her Majesty between twenty-two and twenty-eight years of age at the date of the examination, and of sound bodily health, may be candidates. They may be married or unmarried. They must possess a Diploma in Surgery, or a license to practise it, as well as a Degree in Medicine, or a license to practise it in Great Britain or Ireland.

2. They must subscribe and send in to the Military Secretary, India Office, Westminster, *so as to reach that address at least a fortnight before the date fixed for the Examination*, a declaration according to the annexed form.

3. This declaration must be accompanied by the following documents:—

- a. *Proof of age*, either by extract from the register of the parish in which the candidate was born, or, where such extract is unattainable, by his own declaration (pursuant to the Act 5 & 6 Will. 4, c. 62), form of which can be obtained at the India Office. A certificate of baptism which does not afford proof of age will be useless.
- b. *A certificate of moral character* from a magistrate, or a minister of the religious denomination to which the candidate belongs, who has personally known him for at least the two years preceding the date of his application.
- c. *A certificate of registration*, in accordance with the Medical Act of 1858, of the degrees, diplomas, and licenses possessed by the candidate.



4. The physical fitness of candidates will be determined previous to examination by a Board of Medical Officers, who are required to certify that the candidate's vision is sufficiently good to enable him to perform any surgical operation without the aid of glasses. A moderate degree of Myopia would not be considered a disqualification, provided it did not necessitate the use of glasses during the performance of operations, and that no organic disease of the eyes existed.

Every candidate must also be free from organic disease of other organs, and from constitutional weakness, or other disability likely to unfit him for military service in India.

5. On producing the foregoing qualifications, the candidate will be examined by the Examining Board in the following compulsory subjects, and the highest number of marks attainable will be distributed as follows:—

	Marks.
(a.) Anatomy and Physiology, . . . . .	1,000
(b.) Surgery, . . . . .	1,000
(c.) Medicine, including Therapeutics, the Diseases of women and children, . . . . .	1,000
(d.) Chemistry and Pharmacy, and a practical knowledge of Drugs, . . . . .	100

(The examination in Medicine and Surgery will be in part practical, and will include operations on the dead body, the application of surgical apparatus, and the examination of medical and surgical patients at the bedside.)

6. The eligibility of each candidate for the Indian Medical Service will be determined by the result of the examinations in these subjects only.

7. Candidates, who desire it, will be examined in French, German, and Hindustani, Comparative Anatomy, Zoology, Natural Philosophy, Physical Geography, and Botany, with special reference to *Materia Medica*.

8. The number of marks gained in these subjects will be added to the total number of marks obtained in the obligatory part of the Examination by candidates who shall have been found qualified for admission, and whose position on the list of successful competitors will thus be improved in proportion to their knowledge of modern languages and natural sciences.

9. The maximum number of marks allotted to the voluntary subjects will be as follows:—

	Marks.
French, German, and Hindustani (150 each), . . . . .	450
Natural Science, . . . . .	300

10. The subjects for this part of the examination will be taken from the following books:—

- "Animal Kingdom," by W. S. Dallas, F.L.S.
- "Outlines of the Structure and Functions of the Animal Kingdom," by Rymer Jones; or, "Cours Élémentaire d'Histoire Naturelle," par Milne Edwards.
- Lindley's "School Botany," Lindley's "Medical and Economic Botany," Henfrey's "Elementary Course of Botany."
- "Elements of Natural Philosophy," by Golding Bird and C. Brooks.
- "Physical Geography," by Mrs. Somerville.

11. The Examiners in London will prepare a list in order of merit, with the marks affixed in the different subjects, to be transmitted to the Director-General, and communicated to the Professors of the Army Medical School. If any candidate is found to be deficient in any particular subject this shall be stated, in order that he may receive special instruction on the point at Netley.

12. After passing his preliminary examination, candidate will be required to attend one entire course of practical instruction at the Army Medical School before being admitted to examination for a commission, on—

- (1.) Hygiène.
- (2.) Clinical and Military Medicine.
- (3.) Clinical and Military Surgery.
- (4.) Pathology of Diseases and Injuries incident to Military Service.

These courses are to be of not less than four months duration ; but candidates who have already gone through a course at Netley as candidates for the Army or Navy Medical Service may, if thought desirable, be exempted from attending the school a second time.

13. During the period of his residence at the Army Medical School, each candidate will receive an allowance of 5s. per diem, with quarters, or 7s. per diem without quarters, to cover all cost of maintenance, and he will be required to provide himself with uniform (viz., the regulation undress uniform of a Surgeon of the British Service, but without the sword).

14. All candidates will be required to conform to such rules of discipline as the Senate may, from time to time, enact.

15. At the conclusion of the course, candidates will be required to pass an examination on the subjects taught in the school. The examination will be conducted by the Professors of the school.

The Director-General, or any Medical Officer deputed by him, may be present and take part in the examination. If the candidate give satisfactory evidence of being qualified for the practical duties of an Army Medical Officer, he will be eligible for a commission as Surgeon.

16. The position of the candidates on the list of Surgeons will be determined by the combined results of the preliminary and of the final examinations, and, so far as the requirements of the service will permit, they will have the choice of Presidency in India, according to their position in that list.

INDIA OFFICE,  
February, 1879.

N.B.—The examinations for admission to the Indian Medical Service will usually take place twice a year, viz., in February and in August.

## EXAMINATIONS FOR THE CIVIL SERVICE OF INDIA.

### REGULATIONS for the OPEN COMPETITION of 1885.

*N.B.—The Regulations are liable to be altered in future years.*

1. On the 2nd June, 1885, and following days, an examination open to all qualified persons will be held in London.\* Not fewer than persons will be selected, if so many shall be found duly qualified ; viz., for the Lower Provinces of Bengal (including Assam) ; for the Upper Provinces of Bengal (including the Punjab and Oudh) ; for Burma ; for Madras, and for Bombay.†

\* An order for admission to the examination will be sent to each candidate on the 19th of May.

† The numbers will be announced hereafter.

2. No person will be deemed qualified who shall not satisfy the Civil Service Commissioners :—

- (i.) That he is a natural born subject of Her Majesty.
- (ii.) That his age will be above seventeen years and under nineteen years, on the 1st January, 1885. [*N.B.—In the case of Natives of India this must be certified by the Government of India, or of the Presidency or Province in which the Candidate may have resided.*]
- (iii.) That he has no disease, constitutional affection, or bodily infirmity unfitting him, or likely to unfit him, for the Civil Service of India.
- (iv.) That he is of good moral character.

3. Should the evidence upon the above points be *prima facie* satisfactory to the Civil Service Commissioners, the Candidate on payment of the prescribed fee,\* will be admitted to the Examination. The Commissioners may, however, in their discretion, at any time prior to the grant of the Certificate of Qualification hereinafter referred to, institute such further inquiries as they may deem necessary; and, if the result of such inquiries, in the case of any Candidate, should be unsatisfactory to them in any of the above respects, he will be ineligible for admission to the Civil Service of India; and, if already selected, will be removed from the position of a Probationer.

4. The examination will take place only in the following branches of knowledge :—

	Marks.
English Composition . . . . .	300
History of England—including a period selected by the Candidate†	300
English Literature—including books selected by the Candidate† .	300
Greek . . . . .	600
Latin . . . . .	800
French . . . . .	500
German . . . . .	500
Italian . . . . .	400
Mathematics (pure and mixed)‡ . . . . .	1,000
Natural Science: that is, the Elements of any two of the following Sciences, viz. :—	
Chemistry, 500; Electricity and Magnetism, 300; Experimental	
Laws of Heat and Light, 300; Mechanical Philosophy, with	
outlines of Astronomy, 300.	
Logic . . . . .	300
Elements of Political Economy . . . . .	300
Sanskrit§ . . . . .	500
Arabic§ . . . . .	500

Candidates are at liberty to name any or all of these branches of knowledge. No subjects are obligatory.

5. The merit of the persons examined will be estimated by marks; and the number set opposite to each branch in the preceding regulation denotes the greatest number of marks that can be obtained in respect of it.

\* The fee (£5) will be payable by means of a special stamp according to instructions which will be communicated to candidates.

† A considerable portion of the marks for English History and Literature will be allotted to the work selected by the candidate. (See notice on p. 4.) In awarding marks for this, regard will be had partly to the extent and importance of the periods or books selected, but chiefly to the thoroughness with which they have been studied.

‡ The examination will range from Arithmetic, Algebra, and Elementary Geometry, up to the elements of the differential and integral calculus, including the lower portions of applied Mathematics.

§ The standard of marking in Sanskrit and Arabic will be determined with reference to a high degree of proficiency, such as may be expected to be reached by a native of good education.

6. The marks assigned to Candidates in each branch will be subject to such deduction as the Civil Service Commissioners may deem necessary,\* in order to secure that "a Candidate be allowed no credit at all for taking up a subject in which he is a mere smatterer."

7. The examination will be conducted on paper and *vivâ voce*, as may be deemed necessary.

8. The marks obtained by each candidate, in respect of each of the subjects in which he shall have been examined, will be added up, and the names of the several candidates who shall have obtained, after the deduction above mentioned, a greater aggregate number of marks than any of the remaining candidates, will be set forth in order of merit, and such candidates shall be deemed to be selected candidates for the Civil Service of India, provided they appear to be in other respects duly qualified. Should any of the selected candidates become disqualified, the Secretary of State for India will determine whether the vacancy thus created shall be filled up or not. In the former case, the candidate next in order of merit and in other respects duly qualified, shall be deemed to be a selected candidate. A selected candidate declining to accept the appointment which may be offered to him will be disqualified for any subsequent competition.

9. Selected candidates before proceeding to India will be on probation for two years, during which time they will be examined periodically, with the view of testing their progress in the following subjects :—†

	Marks
1. Law, . . . . .	1,250
2. Classical Languages of India—	
Sanskrit, . . . . .	500
Arabic, . . . . .	400
Persian, . . . . .	400
3. Vernacular Languages of India (each), . . . . .	400
4. The History and Geography of India, . . . . .	350
5. Political Economy, . . . . .	350

In these examinations, as in the open competition, the merit of the candidates examined will be estimated by marks, and the number set opposite to each subject denotes the greatest number of marks that can be obtained in respect of it at any one examination. The examination will be conducted on paper and *vivâ voce*, as may be deemed necessary. The last of these examinations will be held at the close of the second year of probation, and will be called the "Final Examination," at which it will be decided whether a selected candidate is qualified for the Civil Service of India. At this examination candidates will be permitted to take up any one of the following branches of Natural Science, viz. :—Agricultural Chemistry, Botany, Geology, or Zoology, for which 350 marks will be allowed.

10. Candidates will be tested during their probation as to their ability to perform journeys on horseback ; and no candidate will be deemed qualified for the Civil Service of India who fails to satisfy the Civil Service Commissioners of his competence in this respect.

11. Any candidate who, at any of the periodical Examinations, shall appear to have wilfully neglected his studies, or to be physically incapacitated for pursuing the prescribed course of training, will be liable to have his name removed from the list of selected candidates.

12. The selected candidates who at the Final Examination shall be found to have a competent knowledge of the subjects specified in Regulation 9, and who shall have satisfied the Civil Service Commissioners of

\* Marks assigned in English Composition and Mathematics will be subject to no deduction.

† Full instructions as to the course of study to be pursued will be issued to the successful candidates as soon as possible after the result of the open competition is declared.

their eligibility in respect of nationality, age, health, character, and ability to ride, shall be certified by the said Commissioners to be entitled to be appointed to the Civil Service of India, provided they shall comply with the regulations in force, at the time, for that Service.

13. Persons desirous to be admitted as candidates must apply on Forms, which may be obtained from "The Secretary, Civil Service Commission, London, S.W.," at any time after the 1st December, 1884. The Forms must be returned so as to be received at the office of the Civil Service Commissioners on or before 31st March, 1885.\*

The Civil Service Commissioners are authorized by the Secretary of State for India in Council to make the following announcements:—

1. Selected Candidates will be permitted to choose, according to the order in which they stand in the list resulting from the open competition, so long as a choice remains, the Presidency (and in Bengal the Division of the Presidency) to which they shall be appointed, but this choice will be subject to a different arrangement, should the Secretary of State, or the Government of India, deem it necessary.†

2. The Probationers, having passed the necessary examinations, will be required to report their arrival in India within such period after the grant of their Certificate of Qualification as the Secretary of State may in each case direct.

3. The seniority in the Civil Service of India of the selected candidates shall be determined according to the order in which they stand on the list resulting from the Final Examination.

4. An allowance amounting to £300 will be given to all candidates who pass their probation at one of the Universities or Colleges which have been approved by the Secretary of State, viz., the Universities of Oxford, Cambridge, Dublin, Glasgow, Edinburgh, St. Andrew's, and Aberdeen; University College, London; and King's College, London; provided such candidates shall have passed the required Examinations to the satisfaction of the Civil Service Commissioners, and shall have complied with such rules as may be laid down for the guidance of Selected Candidates.

5. Selected Candidates desiring to remain in this country an additional year after the completion of their two years' probation for the purpose of taking a degree at one of the Universities above-mentioned, should apply to the Secretary of State for India for permission to do so. Besides the allowances above-mentioned, a bonus of £150 will, as a temporary and experimental measure, be paid to any candidate who, having obtained permission to remain an additional year, passes an examination qualifying for a degree in honors at Oxford or Cambridge. This privilege will be hereafter extended to any other of the Universities above referred to, at which an academical distinction is obtainable which, in the opinion of the Secretary of State corresponds to a degree in honors at Oxford or Cambridge, and to obtain which the additional year's residence in this country is necessary.

6. All selected candidates will be required, after having passed the first periodical Examination, and before receiving the first instalment of their allowance, to attend at the India Office for the purpose of entering into an agreement binding themselves, amongst other things, to refund in certain cases the amount of their allowance in the event of their failing to proceed to India. A surety will be required.

\* These forms should be accompanied by evidence on the points mentioned in Regulation 2, and by a list of the subjects in which the candidate desires to be examined. Evidence of health and character must bear date not earlier than 1st March, 1885. Applications for leave to alter or add to the list of subjects named will not be entertained unless received on or before the 4th of May.

† This choice must be exercised immediately after the result of the open competition is announced, on such day as may be fixed by the Civil Service Commissioners.

7. After passing the Final Examination, each candidate will be required to attend again at the India Office, with the view of entering into covenants, by which, amongst other things, they will bind themselves to agree to such Regulations for the provision of pensions for their families as may be approved by the Secretary of State for India in Council. The stamps payable on these covenants amount to £1.

8. Candidates rejected at the Final Examination of 1887 will in no case be allowed to present themselves for re-examination.

NOTICE RESPECTING THE EXAMINATION IN THE HISTORY OF  
ENGLAND, AND ENGLISH LITERATURE.

HISTORY OF ENGLAND.

For the guidance of Candidates who may have a difficulty in making their selections for special study under this head, the following list is given as indicating the character and amount of reading that would be regarded as satisfactory.

*Any one of the following periods, to be studied generally in "Bright's History," and particularly in portions selected by the Candidate of the Text-books named:—*

1. *Henry II. to Edward III. A.D. 1154–1377.*—Stubbs' Select Charters; Stubbs' Constitutional History of England.

2. *The Tudors, A.D. 1485–1603.*—Hallam's Constitutional History of England; Froude's History of England.

3. *The Stuarts, A.D. 1603–1714.*—Hallam's Constitutional History of England; Macaulay's History of England.

4. *A.D. 1714–1805.*—Lord Stanhope's History; Sir T. E. May's Constitutional History; either Massey's Reign of George III., or Lord Stanhope's Life of Pitt.

ENGLISH LITERATURE.

Under this head there will be (besides the general paper) a special paper on the following books:—

1. *Chaucer.*—Prologue and Clerk's Tale.

2. *Shakespeare.*—As You Like It, Anthony and Cleopatra.

3. *More.*—Utopia.

4. *Byron.*—Childe Harold.

5. *Burke.*—Thoughts on Present Discontents, Reflections on the French Revolution.

The oral examination in English Literature will have reference chiefly to such works, *not included in the foregoing list*, as the candidate may offer for the purpose.

COLONIAL OFFICE.

The Civil Service Commissioners have been informed by the Secretary of State for the Colonies, that the Salaries of the Junior or Second Class Clerkships under Class I., in the Civil Service, commence in the Colonial Office at £250 per annum, and rise by yearly increments to £600.

Promotions are made from this Class to the two higher Classes, paid respectively £700 to £800, and £900 to £1000.

Furnished rooms in the Colonial Office Buildings, with special allowances, are assigned to two of the Clerks, to attend to pressing business out of office hours. The successful candidate may be required to reside in the office on the occurrence of a vacancy.

Three of the Clerks who act as Private Secretaries receive an extra allowance each of £100 per annum.

Colonial Office December, 1881.

## MEMORANDUM.

Open Competitive Examination for Clerkships (Class I.) in the Civil Service to be held on the 28th February, 1882, and following days.

Out of the list resulting from this Examination will be filled (provided there be Candidates duly qualified):—

- (a.) All the vacancies in Class I. which may have been reported to the Civil Service Commissioners up to the date at which the notice of the Examination is published in the *London Gazette* (viz., 10 Jan. 1882);
- (b.) Such other vacancies (being in the “New Higher Division of the Civil Service”) as the Civil Service Commissioners, with the approval of the Lords of the Treasury, shall estimate as likely to occur within six months after the date of the said Notice;\*
- (c.) Any vacancy in Class I. (but not in the “New Higher Division”) occurring within six months from the said date, which the head of the Department may desire to have so filled.

Candidates will be allowed to choose, according to their place on the list, among the vacancies (a) for which they are duly qualified; or they may elect to wait for a vacancy (b), or for the chance of a vacancy (c). When vacancies (b) or (c) occur, they will be offered in rotation to the qualified Candidates then on the list, who will be free to decline them without forfeiting their claim to subsequent vacancies (b) or (c).

By the term “New Higher Division of the Civil Service” in this Regulation are meant situations to be filled under Regulations I., with salaries commencing at £100, and rising by triennial increments to £400, to which may be added, at any stage, in the case of persons selected for the performance of special duties, duty-pay of proportionate amount not exceeding £200.

The undermentioned vacancy has been notified to the Commissioners, viz.,

Department.	Situation.
Colonial Office, . . . . .	1 Clerkship. †

CIVIL SERVICE COMMISSION,  
11th Jan., 1882.

SPECIAL REGULATIONS Supplementary to the GENERAL REGULATIONS issued 8th April, 1872, and amended by subsequent Notices in the “LONDON GAZETTE,” respecting OPEN COMPETITIVE EXAMINATIONS for CLERKSHIPS (CLASS I.) in the CIVIL SERVICE.

N.B.—*These Regulations are liable to alteration.*

1. The limits of age for these situations are 18 and 24, and Candidates must be of the prescribed age on the first day of the competitive examination.

2. At the competitive examinations exercises will be set in the

\* The number estimated as likely to occur within the next six months is 2.

† See Note on the other side.





When vacancies (b) or (c) occur, they will be offered in rotation to the qualified Candidates then on the list, who will be free to decline them without forfeiting their claim to subsequent vacancies (b) or (c).

By the term "New Higher Division of the Civil Service" in this Regulation are meant situations to be filled under Regulations I., with salaries commencing at £100, and rising by triennial increments to £400, to which may be added, at any stage, in the case of persons selected for the performance of special duties, duty-pay of proportionate amount not exceeding £200.

CIVIL SERVICE COMMISSION, London, S. W.,  
23rd February, 1880.

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NOTICE.

An Open Competitive Examination will be held in London, under the above Regulations, on Tuesday, the 28th February, 1882, and following days.

A Preliminary Examination will be held in London, Edinburgh, and Dublin, on Tuesday, the 7th February, 1882.

\* \* No Person will be admitted to the Preliminary Examination from whom the Secretary, Civil Service Commission, has not received, on or before the 28th January, 1882, an application, in the Candidate's own handwriting, on a prescribed form, to be obtained from the Civil Service Commissioners. One of these forms, marked A, is sent herewith.

The Orders for admission to the Preliminary Examination will be posted on the 3rd February to the address given on the Form of application. The Orders for admission to the Competitive Examination will be posted on the 24th February. They will in each case contain instructions as to the manner in which the fee is to be paid.

An Order for admission to the forthcoming Competitive Examination will be sent to all candidates who pass at this Preliminary Examination.

Candidates who have already passed a Preliminary Examination and desire to be admitted to the forthcoming Competitive Examination shall fill up the Form marked B. This Form must be sent so as to be received by the Secretary, Civil Service Commission, not later than the 7th February.

CIVIL SERVICE COMMISSION,  
7th January, 1882.

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GENERAL REGULATIONS issued 8th April, 1872, and amended by Notices in the "LONDON GAZETTE" of the 24th January, 1873, 21st November, 1873, 16th June, 1874, 5th February, 1875, 9th November, 1875, 20th September, 1878, 12th September, 1879, 27th July, and 23rd November, 1880, respecting OPEN COMPETITIVE EXAMINATIONS for SITUATIONS in the CIVIL SERVICE, included in Schedule A. of the Order in Council of 4th June, 1870.

N.B.—*These Regulations are liable to alteration at any time.*

1. Competitive Examinations of Candidates for situations in the different public departments will be held at such times and at such places as may be deemed expedient. Before every such examination

Special Regulations will be issued, in which the particular conditions of the competition will be specified.

2. These examinations will have reference either to the vacancies existing at the time of the examinations respectively, or to the number which may be estimated to occur within any period not exceeding six months after the commencement of the examinations, as may be laid down in Special Regulations, or in any notice of such examinations published with the approval of the Lords of the Treasury, in the *London Gazette*.

3. These Examinations are open, under such general restrictions as may be laid down, to all natural born subjects of Her Majesty, being of the requisite age, health, and character. The undermentioned restrictions are at present in force:

- (i.) Persons actually serving in the Army and Navy are ineligible.
- (ii.) The following classes of persons are eligible under certain conditions only, that is to say:—
  - (a.) Persons holding situations in the Civil Service.
  - (b.) Members of the Royal Irish Constabulary, of less than 12 years' service.
  - (c.) Apprentices and Engineer students in Her Majesty's Dockyards.
  - (d.) Persons who have been trained in Normal Schools at the public expense.

Persons comprised in the classes (a), (b), (c) must have produced to the Civil Service Commissioners, before the date of the competition, the written permission\* of the authorities of their department to attend the examination.

Persons comprised in class (d) will not be qualified to receive appointments until the consent of the Committee of Council on Education, Great Britain, or the Commissioners of National Education, Ireland, as the case may be, given in conformity with rules sanctioned by the Lords of the Treasury, has been notified to the Civil Service Commissioners.

4. In reckoning age for competition the following allowances will be made, viz., (1) members of the Military and Naval services (whether commissioned or non-commissioned) may deduct from their actual age any time during which they have served towards pension; (2) persons who have served for two full consecutive years (a) in any Civil situation to which they were admitted with the Certificate of the Civil Service Commissioners (b) in the Royal Irish Constabulary, or (c) as Registered Copyists in connexion with the Civil Service, may deduct from their actual age any time not exceeding five years which they may have spent in such service.

5. If at any examination two or more situations, whether in the same or different Departments, shall be offered for competition, the successful candidates will be permitted (unless otherwise stated in Special Regulations) to choose in their order as determined by the competitive examination among the situations offered for competition; provided that they be duly qualified according to the special rules prescribed, under Clause IV. of Her Majesty's Order in Council of 4th June, 1870, for the particular situations to which they may severally be assigned. If there be a vacant situation for which no one of the successful candidates is duly qualified, the Civil Service Commissioners

\* It is desirable that this permission should be produced at least one week before the date of the competition.

may offer it to the highest candidate on the list whom they may deem duly qualified, or to the candidate highest at the time on the list, subject to his passing a qualifying examination within such period as they may determine; or they may reserve it to be filled by means of a subsequent open competition, or otherwise, as they may see fit, in accordance with the Order in Council of 4th June, 1870.

CIVIL SERVICE COMMISSION,  
London, S.W.

#### STUDENT INTERPRETERS.

1. The office of Student Interpreter has been instituted to supply the Consular service in China, Japan, and Siam with persons versed in the languages of those countries, and otherwise competent to discharge Consular duties.

2. Student Interpreters are selected by open competition after examination by the Civil Service Commissioners, who will give public notice beforehand of such examination.

3. The Student Interpreters are to devote themselves, in the first place, to the study of the language of the country to which they are appointed, and, in the next place, they are to qualify themselves generally for the public service; but they must clearly understand that their retention and advancement in the public service will depend entirely on the ability which they may show after their arrival at their destination, and on their general steadiness and good conduct.

4. The salary of the Student Interpreters is fixed at the rate of £200 a year, commencing ten days previously to the date of their departure from England. A passage to their post is provided for them at the public expense, but they are required to execute a bond for the repayment of the amount of passage money in the event of resignation or discharge from the service within five years. The successful candidates are expected to proceed to their destination as soon after their appointment as they can make arrangements for doing so.

5. The climate of China being considered trying to English constitutions, the Civil Service Commissioners will take into consideration the health of the candidates with regard to the probability of its being such as to bear a residence in that country.\*

6. Candidates must not be under eighteen or over twenty-four years of age at the date of examination.

Further information can be had from the Secretary, Civil Service Commissioners, London.

#### PROGRAMME of EXAMINATION for CANDIDATES for INSPECTORSHIPS under the Board of National Education, Ireland.

1. ENGLISH:—		OBLIGATORY SUBJECTS.	No. of Marks for each Subject.
Penmanship,	.	.	200
Orthography,	.	.	200
English Composition,	.	.	300
Grammar and Language,	.	.	300
English Literature (Optional),	.	.	500
			1,500

Literature—Bacon's Essays. Some of Edmund Burke's Works (American Taxation and on Conciliation with America, and Address to Electors of Bristol before going to Poll (1780). Macaulay: † Essays on Clive and Hastings. Shakespeare, Milton (Sonnets, L'Allegro, Pensive, Comus, and I. II. Books of Paradise Lost).

\* The necessary medical examination may be undergone before the general examination, and candidates may obtain information as to the course they should pursue for that purpose by applying to the Commissioners.

† The Essays and Plays may be changed from year to year.

INSPECTOR OF SCHOOLS.		No. of Marks for each Subject.
2. GEOGRAPHY (obligatory) — Sullivan's Geography Generalized,		500
3. HISTORY (optional) :		
English,	}	600
Greece (Smith's),		
Rome (Liddell's),		
4. ELEMENTARY MATHEMATICS (obligatory) :—		
Arithmetic,		600
Euclid, 1st, 2nd, 3rd, and 6th Books,		400
Algebra, including Quadratics Equatics,		400
Trigonometry, to solution of Plane Triangles only,		300
HIGHER MATHEMATICS (optional)—Spherical Trigonometry, Theory of Equations, Elements of Differential and Integral Calculus,	}	600
5. PHYSICAL SCIENCE (obligatory)—Mechanics, with any two of the following subjects, Hydrostatics, Pneumatics, Optics, Heat, Electricity,		600
6. LOGIC (optional)—Walker, omitting Chapter on Induction and Fallacies; Whately's Easy Lessons on Reasoning,		300
7. POLITICAL ECONOMY (optional)—Adam Smith's Wealth of Nations, Books I., II., III., and V., with either of the following :—J. S. Mill, Books I., II., III., and V.), or Fawcett's Manual, Book I., Book II., chapters 1, 2, 5, 6, and 8,		300
8. (1*) LATIN—Livy, Books I., II., III.; Sallust; Virgil, Books I., II., III. of <i>Æneid</i> ; Horace, The Odes, not to include their metrical construction, (Latin Prose Composition is optional).		500
(2*) GREEK—Xenophon, Book I. of <i>Anabasis</i> or <i>Cyropædia</i> ; any two Books of the <i>Iliad</i> , and any one Book of Herodotus,		500
(3*) FRENCH—Translation, Composition, Oral questions,		500
LATIN AND GREEK : An Extended Course (optional),		600
(4.) GERMAN (optional),		500
(5.) ITALIAN		500
9. EDUCATION (obligatory)—Tracts of Ascham, Milton, and Locke; Joyee's Handbook of School Management; Robinson's Manual of Method and Organization,		400

Limits of age, 21 and 34.

\* A Candidate may take these three languages, but must take at least two of them.

### COUNTY SURVEYORSHIPS IN IRELAND.

(Open Competition under 25 & 26 Vict., c. 106.)

Course extracted from the Reports of the Civil Service Commissioners.

PART I.	Maximum of Marks.
MATHEMATICS—including Geometry, Trigonometry, Algebra, Differential and Integral Calculus, and Geometrical Optics,	100
MECHANICAL PHILOSOPHY—including Statics and Dynamics, Hydrostatics and Hydraulics, Pneumatics, and Heat regarded as a source of Power,	100
EXPERIMENTAL SCIENCE—including Inorganic Chemistry, Heat, Electricity, and Magnetism,	100
GEOLOGY AND MINERALOGY,	40
No Candidate will be eligible who does not show some proficiency under one at least of the heads included in Part I.	
PART II.	
Strength and other Properties of Materials, and the Calculation of Strains,	100
(A.) RAILWAY AND CANAL ENGINEERING,	140
(B.) MARINE ENGINEERING—including Harbour, Dock, Sea, and Reclamation Works,	140
(C.) HYDRAULIC ENGINEERING—including Water Supply, Sewage, and Irrigation,	140
(D.) COUNTY WORKS—including Architecture, Roads, Drainage, and River Works,	140
	1,000

\*\* Each of the groups lettered A., B., C., D., to include Designs, Estimates, Specifications, and the mechanical contrivances connected with it; and Candidates will be required to show that they have been engaged in the practice of their profession on adequate works for a sufficient time, or have had in some other way satisfactory opportunities of becoming acquainted with the practice of their profession in some one of the branches thus indicated.

Limits of age, 26 to 40.

**RULES of the HONORABLE SOCIETY of KING'S INNS, with regard to the ADMISSION of STUDENTS into the SOCIETY, and to the DEGREE of BARRISTER-AT-LAW.**

**ADMISSION OF STUDENTS.**

I.—Every person applying to be admitted a Student into this Society shall present at the Under-Treasurer's Office, three clear days at the least before the first day of term, a memorial in the printed form adopted by the Benchers, which memorial is to be signed and lodged by the person applying to be admitted a Student, and a certificate annexed thereto, signed by a practising Barrister of at least ten years' standing.

II.—Every person applying to be admitted a Student shall pay the sum of one guinea upon application for the form of memorial.

III.—Every person applying to be admitted a Student, on presenting such memorial, shall produce a certificate of having paid at the Stamp Office, the stamp duty of twenty-five pounds sterling, and shall also pay to the Under-Treasurer the sum of twenty-two pounds ten shillings, which includes five pounds five shillings for admission to the Library, and five pounds five shillings for Professors' fees—the balance being the fee for admission into the Society as a Student.

IV.—Every Student shall, in addition to the sum of five guineas, Professors' fees paid on admission, also pay the sum of five guineas Professors' fees for every year after the first year, during which he shall attend the lectures of the Professors of the King's Inns; and no Student shall be admitted to attend the lectures of any Professor of the King's Inns except on production of the certificate of the Under-Treasurer that he has paid such fees.

V.—Every person not otherwise disqualified, and who shall have passed a public examination at any University within the British Dominions, or for a commission in the Army or Navy, or for the Indian Civil Service, or for the Consular Service, or for cadetship in the three Eastern Colonies of Ceylon, Hong Kong, and the Straits Settlements, or who shall be a Student of any of the Queen's Colleges at Belfast, Cork, or Galway, or of any of the Inns of Court in England, having passed the preliminary examination therein, shall be entitled to be admitted a Student without passing a preliminary examination.

VI.—Any Solicitor who shall have been in practice for not less than five years, and who shall, before his admission as a student, have ceased to be a Solicitor, and have had his name removed from the roll upon his own application, may, without passing any preliminary examination, but upon complying with all other conditions of admission, be admitted as a Student into the Society of King's Inns, and may be called to the Bar at any time after having, subsequently to his admission into King's Inns, kept four terms in King's Inns, or in any of the Inns of Court in England, and satisfactorily passed an examination in three subjects at least at the Honor Examination at King's Inns. Any person desiring admission under this rule may present his memorial for admission, and may be admitted as a Student at any time after he shall have ceased to be a Solicitor, and have had his name removed from the roll.

VII.—Every other person, except such as come under rules 5 and 6, applying to be admitted a Student shall, before such admission as a Student pass an examination in the following subjects, viz. :—

Latin :—

Cæsar—Commentaries, Books I. and II.

Virgil—Æneid, Books I. to VI.

Horace—Odes, Book I.; Satires and Epistles.

**English History :—**

The Student's Hume, or, The Abridgment of Lingard's History of England.

**English Language and Literature :—**

1. English Grammar; Selections from Latham's History of the English Language
2. The Student's Manual of English Literature.
3. Any three of the following subjects at the Student's election :—
  - a. Chaucer—Prologue and Knight's Tale (Clarendon Press Series).
  - b. Spenser's Faërie Queene, Book I. (Clarendon Press Series).
  - c. Any three of the following Plays of Shakespere: Julius Cæsar, Macbeth, Hamlet, King John, Henry V., Richard II., Othello, Midsummer Night's Dream, Romeo and Juliet.
  - d. Milton's Paradise Lost, omitting Books 5–8, and The Sonnets.
  - e. Bacon's Essays: Of Truth, Of Adversity, Of Revenge, Of Atheism, Of Superstition, Of Travel, Of Innovation, Of Nature in Man, Of Building, Of Studies.
  - f. Dryden—Absalom and Achitophel, and Religio Laici, or, The Hind and the Panther.
  - g. Pope's Essay on Man, and Rape of the Lock.
  - h. Byron—Childe Harold.
  - i. Tennyson's lesser Poems, as in Edition of 1852, or The Arthurian Legends.
  - j. Johnson's Lives of Milton, Dryden, Pope, and Addison.
  - k. Macaulay's Essays on Warren Hastings, and Lord Clive, or on Frederick II. (of Prussia), and Lord Chatham.

**KEEPING TERMS.**

VIII.—Subject to the exceptions mentioned in the rules, every Student shall keep twelve Terms' Commons in the Dining Hall of the Society, but each Student shall, at his option, be entitled to substitute in place of four of such Terms four Terms' Commons kept in one of the Four Inns of Court in London, in accordance with the regulations of such Inn; the last of the said twelve Terms may be kept in the Term in which the Student shall apply to be called to the Bar.

IX.—Every Student shall be enabled to keep terms by dining in the Hall of the Society on two days at least in the Term, one day in the half week commencing on Tuesday, and one day in the half week commencing on Friday. No day's attendance in the Hall shall be available for the purpose of keeping Term, unless the Student attending shall have been present at the grace before dinner, during the whole of dinner, and until the concluding grace shall have been said, unless one of the Benchers for the day shall permit the Student to leave earlier.

X.—The terms in each year shall commence as follows :—Michaelmas Term shall commence on November 2nd; Hilary Term shall commence on January 11th; Easter Term shall commence on April 15th; and Trinity Term shall commence on June 1st. When any of these days shall fall upon a Sunday or holiday, the Term shall commence upon the next succeeding day which shall not be a Sunday or holiday.

**EDUCATIONAL REGULATIONS..**

XI.—A continuous Course of Lectures, which shall commence in Michaelmas Term in each year, and consist of Three consecutive Terms of Lectures, shall be delivered by each of the Professors. The number of Lectures in each Term shall be Twelve, and the qualifying number to be attended by each Student shall be nine.

XII.—An examination shall be held by each Professor at the end of each Term in the subject of the Lectures of the Term, at which the Students who have attended the Lectures shall be bound to present themselves for examination; and no Student shall be entitled to credit for attendance on the Term of Lectures without a certificate of having passed the examination to the satisfaction of the Professor.

XIII.—An examination shall be held annually on a day to be fixed by the Education Committee, before the commencement of Trinity Term, in

the subject of the Course of Lectures of the three preceding Terms ; and no Student shall be entitled to credit for the Course of Lectures without a certificate of having passed the examination to the satisfaction of the Examiners. Every such examination shall be conducted by a practising Barrister, other than the Lecturer, chosen by the Education Committee, and in the presence of a Bencher, and the Education Committee shall fix the sum to be allowed to such practising Barristers for conducting the examination.

XIV.—Each Student must attend two continuous Courses of Lectures, as defined by Rule XI., with each of the two Professors at the King's Inns, and one complete Course of three Terms with each of two Professors in the Law School of Trinity College, Dublin. Attendance at Lectures must extend over three years at the least. The Education Committee may accept as an equivalent for attendance on one continuous Course of Lectures of the two Professors at the King's Inns *bona fide* attendance in the Chambers of a Barrister or Pleader in Ireland or England for one legal year, or attendance for one year at the Lectures of two Professors of the Inns of Court in London.

XV.—The Education Committee may grant a special examination to any Student on any grounds they may deem sufficient, and a certificate of having passed such special examination to the satisfaction of the Examiners may be accepted in substitution for any one or more of the above-mentioned certificates.

XVI.—Graduates of the Queen's University in Ireland, Royal University of Ireland, Oxford, Cambridge, and London Universities, may qualify for call to the Bar by attending two continuous Courses of the lectures of the two Professors at the King's Inns, and in the case of all such graduates, except graduates of the Royal University of Ireland, or of the London University, by attending for a year the lectures of two of the Professors of Law in their respective Universities, and passing the examinations (if any) held by the Professors at the end of each course, and in the case of graduates of the Royal University of Ireland, by attending for one year the lectures of two of the Professors of Law in one of the Queen's Colleges at Belfast, Cork, or Galway, and passing the like examinations, if such be held, and in the case of graduates of the University of London, by attending for one year the lectures of two of the Professors of Law in University College, and passing the like examinations if such be held.

#### HONOR EXAMINATIONS.

XVII.—An Honor Examination to be conducted by Members of the Bench and Professors at the King's Inns, shall be held in October in each year. The Honour Examination shall be in the following subjects, viz. :—  
1. The History of Law, Constitutional Law, and Criminal Law. 2. Jurisprudence, Civil Law, and International Law. 3. The Law of Real Property. 4. The Law of Personal Property. The rules as to the time, place, and subjects of examination shall be published by the Education Committee at least six months before each Honor Examination.

XVIII.—Every Student, who shall within the three years preceding the Examination, have kept at least eight of the Terms' Commons, and attended two continuous courses of lectures necessary to qualify him for admission to the Irish Bar, shall be qualified to compete at an Honor Examination on entering his name at the Under Treasurer's Office, seven clear days at the least, before the day of holding such examination, but no Student may compete at more than one Honor Examination.

XIX.—The "John Brooke Scholarship" of fifty pounds per annum, to continue for three years, shall be conferred on the most distinguished Student at each Honor Examination, and an exhibition of twenty-one

pounds per annum, to continue for three years, shall be conferred on the Student obtaining the second place at each Honor Examination. Each Student obtaining a scholarship or exhibition may, if so recommended by the Education Committee, be excused from keeping two Terms' Commons in the Dining Hall of the Society, and from attending three Terms of lectures, which would be otherwise required for his admission to the Bar. A prize of twenty-one pounds shall be conferred on the Student obtaining the third place at each Honour Examination, and any such Student may also, if so recommended by the Education Committee, be excused from keeping one Term's Commons in the Dining Hall of the Society, and from attending one Term of lectures, which would be otherwise required for his admission to the Bar.

XX.—Each scholarship and exhibition shall be tenable for the three years next following the holder's call to the Irish Bar, provided such call shall take place not later than in the Hilary Sittings after his election, otherwise the period of three years shall be computed from the call day of such sittings, but the payment shall not accrue until the date of the holder's call to the Bar, and shall if necessary be apportioned.

XXI.—Each scholarship and exhibition shall continue so long only as the holder shall remain a practising member of the Irish Bar, and shall retain the personal benefit of such scholarship or exhibition. The Benchers reserve to themselves the power to deprive the holder of any scholarship or exhibition for what shall appear to the Bench to be sufficient cause.

XXII.—The Benchers reserve to themselves a discretion of withholding a scholarship, exhibition, or prize, in case the Education Committee report that they do not consider the answering sufficiently meritorious. The Benchers may give certificates of honor to Students failing to obtain the first, second, or third places, where the Education Committee report that the answering merits such distinction.

XXIII.—A list, arranged in order of merit, of all the Students obtaining scholarships, exhibitions, prizes, or certificates at each Honor Examination, stating the distinctions conferred, shall be placed in the Hall of the Four Courts, in the Law Library of the Four Courts, the Library of the Society in Henrietta-street, and in the Lecture Room of the King's Inns.

XXIV.—At any call to the Bar, those Students who have obtained scholarships, exhibitions, prizes, or certificates of honor, shall take rank in seniority over all other Students who shall be called on the same day, and those who have obtained scholarships, exhibitions, prizes, or certificates of honor, shall rank in seniority among themselves, according to their respective merits.

#### CALLING TO THE BAR.

XXV.—Every Student, having complied with the foregoing rules, desiring to be admitted to the degree of a Barrister-at-Law, and being of the full age of twenty-one years, shall present a memorial, in the printed form adopted by the Benchers, at the Under-Treasurer's Office, three clear days, at the least, before the first day of term, said memorial to be signed by the Student himself; the certificate annexed thereto to be signed by a practising Barrister of at least ten years' standing, and the declaration at foot thereof by a Benchers.

XXVI.—Every Student, so applying for admission to the degree of a Barrister-at-Law, shall, on presenting his said memorial, pay to the Under-Treasurer the sum of forty pounds, being the payment to the Society thereon, and lodge at the same time a certificate of having paid fifty pounds stamp duty at the Stamp Office, certificates of the required attendance upon lectures, and where all his terms shall not have been kept in the dining-hall of the Society, a certificate of having kept the requisite number of terms in one of the Inns of Court in England.



## SELECTIONS FROM EXAMINATION PAPERS.

SESSION, 1886-87.

## MATRICULATION EXAMINATION.

## ENGLISH COMPOSITION.

*Examiner, The President.*

Taking some author from whose works you have derived benefit or pleasure, point out what you consider his special characteristics, and the advantages you have obtained by studying his writings.

1. Divide the following words into their proper syllables ;—*Consonant, Orthography, Etymology, Syntax, Prosody*. Explain what each word means.

2. Correct, if necessary, the following sentences :—

- (a.) "Every candidate must stand or fall on their own merits."
- (b.) "He said he had or would telegraph to his friends."
- (c.) "Two annual prizes will be given in every year."
- (d.) "Who did you send that letter to?"
- (e.) "It was this which first gave rise to the notion."

3. Describe the position of these places, and mention anything noteworthy connected with them ;—

Pergamus, Marathon, Thermopylae, Syracuse, Saguntum, Zama, Utica.

4. Describe geographically any one English or Irish County.

5. Give the date of *The Deserted Village*, and quote the ten closing lines.

6. Distinguish between *Simile* and *Metaphor*; and quote three striking *similes* from the poem.

7. Explain the following lines :—

- (a.) "Lands he could measure, terms and tides presage,  
And even the story ran, that he could gauge."
- (b.) "And half a tillage stints thy smiling plain."
- (c.) "In all the glaring impotence of dress."

8. Write a rapid sketch of Clive's career ; not going into details, but confining yourself to the great facts, and fixing dates whenever you can.

(GREEK.—*Examiner, Professor D'Arcy Thompson, M.A., D.LIT.*

1. Decline, in the singular only, the nouns :—*νεανίας—κριτής—μουσα—πόλις—δάκρυ—βασιλεύς.*

2. Decline, in the plural only, the following :—*φύλαξ—μάστιξ—ὄνυξ—κόρυς—γίγας—λέων.*

3. Enumerate as many nouns in *ος*, as you can, of the second declension that are feminine, omitting *ἰδός* and *νήσοις*.

4. Compare the adjectives :—  
 δεινός — μέλας — χαρίεις — μέσος — εὐδαίμων — ταχύς — ὀλίγος — κικρός — ἡδύς.
5. Compare the adverbs that correspond to the following adjectives :—  
 σοφός — ἡδύς — σώφρων — ταχύς — εὐσεβής — καλός.
6. Show in what way certain prepositions in Greek differ from all prepositions in Latin; and enumerate as many as you can of such peculiar Greek prepositions.
7. Give the first persons singular of the main tenses of :—  
 θνήσκω — ἀλίσκομαι — εὐρίσκω — πάσχω — δάκνω — τέμνω — κάμνω — ἐλαύνω — κρίνω — κτείνω — ἀμαρτάνω — τυγχάνω — ἄλλυμι — λανθάνω — λαμβάνω.
8. Write out in full, in the contracted forms, the imperfect tense, for both active and passive voices, of the verbs :—  
 τιμᾶν — φιλεῖν — ἐηλοῦν.
9. Write out in full the imperfect tense, for both active and passive voices, of the verbs :—  
 ἰστάναι — τιθέναι — δίδοναι — ζευγνύναι.
10. Give the Greek equivalents for the following expressions and sentences :—
- A good soldier.
  - The good soldiers.
  - I will give the money to him.
  - He gave the books to us.
  - Honour thy father and thy mother.
  - He struck the horse with a stick.
  - The youth was not lucky.
  - The islands were small.
  - The judge was sober-minded.
  - If you do so again, you will be punished.
  - If we were to do so, we should be punished.
  - If they had done so, they would have been punished.

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LATIN GRAMMAR.—*Examiner, Professor Davies, M.A., D.LIT.*

- Decline in combination the singular number of *rudis puer*, *acris noverca*, and the plural of *sagax senex*.
- What are the comparative and superlative forms of *multus*, *demens*, *magnus*, *edax*, *malevolus*?
- Decline throughout *ego*, *alius*, *quicumque*, *solus*, *quilibet*.
- What are the perfect tense (1 sing. indic. act.) and 1st supine of *mano*, *cano*, *vinco*, *sarcio*?
- Give examples of adjectives and verbs which govern (a) the genitive, (b) the dative case.
- Define the grammatical terms :—Deponent, Concord, Apposition, Epicene.

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FRENCH.—*Examiner, Professor Steinberger, M.A.*

I.—GRAMMAR.

- Which are the nouns which remain the same in the singular and plural?
- Name the substantives ending in *al* which take an *s* in the plural.

3. Give the feminine of:—Un dieu, l'empereur, le héros, le loup, le boulanger, le neveu, le cheval.

4. Which is in general the gender of towns?

5. How do you form the feminine of adjectives ending in *er*? Give examples.

6. Give the whole future of *avoir*, *aller*, *venir*, *vouloir*,

II.—Translate into French:—

1. We go to bed when we are sleepy.

2. How old are you? I am sixteen.

3. Why did you not send me the book? I have lost it.

4. On the 10th of November, 1887 (in letters).

III.—Pour lors il advint que le duc Guillaume étant un jour en la forêt de Rouvray, et tendant son arc pour chasser en ladite forêt, un messager vint à lui qui lui dit en secret comme quoi il arrivait en diligence pour l'avertir de la mort du roi Edouard et du couronnement de Harold. A cette nouvelle le duc demeura longtemps tout pensif; il bailla son arc qu'il tenait à un de ses gens, et s'en retourna promptement en son hotel de Rouen. Là il commença à se promener rudement dans la salle, s'appuyant tantôt sur un banc, tantôt sur l'autre sans se tenir en aucune place, et nul de ses gens ne lui avait osé dire mot.

MATHEMATICS.—*Examiner, Professor Allman, LL.D., F.R.S.*

*Candidates are required to answer questions in each of the Sections A and B.*

#### A. ARITHMETIC AND ALGEBRA.

1. By what number must the product of 194 and 170 be divided to produce the quotient of 21437 by 13?

2. Find the G. C. M. of 169058 and 591977, and the L. C. M. of 5, 6, 10, 13, 15, 18.

3. Find the cost of 7 tons 7 cwt. 1 qr. 16 lbs. at £2 13s. 8d. the cwt.

4. How much land can be rented for £768 3s. 4d. if the rent of 4 acres is £6 13s. 4d.?

5. Multiply  $x^2 + xy + y^2$  by  $x - y$ ; and divide  $x^4 + 4a^4$  by  $x^2 + 2ax + 2a^2$ .

6. Solve the equations:—

$$\frac{4 - 5x}{6} - \frac{1 - 2x}{3} = \frac{13}{42}; \quad \frac{a}{x - a} - \frac{b}{x - b} = \frac{a - b}{x - c}.$$

#### B. GEOMETRY.

7. Bisect a given rectilinear angle.

8. If a parallelogram and a triangle be upon the same base and between the same parallels, prove that the parallelogram is double the triangle.

9. If a straight line be divided into any two parts, prove that the square on the whole line is equal to the squares on the two parts, together with twice the rectangle under the parts.

10. Describe a square which shall be equal to a given rectilinear figure.

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*In place of questions 7 and 9, Candidates in the Department of Engineering are required to substitute the following questions:—*

- \* 7. Draw a tangent to a circle from a given point without it.
- \* 9. Find a mean proportional between two given straight lines.

ELEMENTARY MECHANICS (*for Medical Students*).

*Examiner, Professor Alexander Anderson, M.A., F.R.U.I.*

1. Two forces of 7 and 8 lbs. respectively act on a point at right angles to one another; find a single force that will balance them.

2. In a lever of the second kind the weight, of 5 lbs., is suspended at a distance of 4 feet from the fulcrum. If the power makes an angle of  $30^\circ$  with the lever and is equal to 1 lb., where must it act?

3. What is meant when it is stated that the acceleration of gravity is 32? A stone is projected vertically upwards with a velocity of 96 feet per second, what will be its velocity and elevation after the lapse of four seconds?

4. Define the centre of gravity of a body. Two uniform spherical balls of 4 and 5 lbs. respectively are placed with their centres at a distance of 9 feet apart; find the centre of gravity.

5. The specific gravity of copper is 9. If the weight of a piece of copper when weighed in air is 10 grains, what will it weigh in water?

6. A cubical box, placed on a horizontal table, is filled with water. If one of the vertical sides be divided into two equal parts by a horizontal line, compare the pressures on these parts.

LITERARY SCHOLARSHIPS.—FIRST YEAR.—ARTS AND MEDICINE.

SESSION 1886-87.

ENGLISH COMPOSITION, AND OUTLINES OF GRECIAN AND ROMAN HISTORY, AND OF ANCIENT AND MODERN GEOGRAPHY.

*Examiner, The President.*

1. As an exercise in Composition, sketch the plot of *Julius Caesar*.
2. Enumerate the channels through which words from the Latin were introduced into English; and classify the Latin elements accordingly.
3. Give rules, with examples, for the use of *shall* and *will*.

4. Where are the Rivers Arno, Douro, Tigris, Potomac; The Lakes Erie, Como, Erne, Ladoga, Derwentwater; The Straits of Bonifacio, Bass, Babelmandeb, Yenikale; The Islands Heligoland, Mauritius, Guadaloupe, Celebes, New Guinea, Cuba, Juan Fernandez, and Kerguelen?

5. What was Shakspeare's authority for the Play of *Julius Caesar*

6. Explain the following passages :—

(a.) "If I were Brutus now, and he were Cassius,  
He should not humour me."

(b.) "But 'tis a common proof  
That lowliness is young ambition's ladder,"—

(c.) "The genius and the mortal instruments  
Are then in council ;"—

7. "O ye gods  
Render me worthy of this noble wife !"

What calls forth this exclamation ?

8. "This is a slight unmeritable man,  
Meet to be sent on errands ;"—

On what errand has Lepidus just been sent ?

9. "There is a tide in the affairs of men  
Which, taken at the flood, leads on to fortune ;"—

In what connexion is this said ?

10. Write notes on the following passages :—

(a.) "What gave great Villiers to th' assassin's knife,  
And fixed disease on Harley's closing life?  
What murder'd Wentworth, and what exiled Hyde?  
By Kings protected, and to King's ally'd?"—

(b.) "And Bacon's mansion trembles o'er his head."

(c.) "Hear Lydiat's life, and Galileo's end."

(d.) "Hide, blushing Glory, hide Pultowa's day :"—

(e.) "The queen, the beauty, sets the world in arms ;"—

11. Give the substance of the opening, and of the closing, paragraph of Macaulay's Essay on Clive.

12. "Not a single great ruler in history can be absolved by a judge who fixes his eye inexorably on one or two unjustifiable acts." What great rulers does Macaulay enumerate, and what does he pronounce to be "the best tribunal for great political cases" ?

13. They had voted the major and minor of Burgoyne's syllogism ; but they shrank from drawing the logical conclusion."

Explain this statement.

14. What references are made in *The Spectator* to Demosthenes, Cicero, Cato, Grotius, Ben Jonson, and Sydenham ?

15. Enumerate as fully as you can the books in *Leonora's* library.

16. Explain the following terms :—"Non-jurors," "Grand Climacteric," "Steenkirke," "Whiffler," "Connivances."

GREEK.—*Examiner*—*Professor Thompson, M.A., D.LIT.*

1. Translate (unprepared passage) :—

XENOPHON—*Agesilaus.*

ἔπειθ' ὁ δὲ ἡ μὲν νίκη σὺν Ἀγησιλάῳ ἐγένετο, τετραμένους δ' αὐτὸς προσηνέχθη πρὸς τὴν φάλαγγα, προσελάσαντες τινες τῶν ἰππέων λέγουσιν αὐτῷ ὅτι τῶν πολεμίων ὀυγδοῖκοντα σὺν τοῖς ἄλλοις ὑπὸ τῷ ναῦ εἰσι, καὶ ἠρώτων τί χρὴ ποιεῖν. ὁ δὲ καίπερ

πολλὰ τραύματα ἔχων πάντοσε καὶ παντοίοις ὄπλοις ὕμωσ οὐκ ἐπελάθετο τοῦ θείου, ἀλλ' ἔαν τε ἀπέναι ὑποὶ βούλοιντο ἐκέλευε καὶ ἀδικεῖν οὐκ εἶα, καὶ προπέμψαι ἐπέταξε τοὺς ἀμφ' αὐτὸν ἱππεῖς ἔσσε ἐν τῷ ἀσφαλεῖ γέγοντο. ἐπεὶ γε μὴν ἔληξεν ἡ μάχη, παρὴν δὴ θεάσασθαι ἔνθα συνέπεσον ἀλλήλοισ τὴν μὲν γῆν αιματι πεφυρμένην, νεκροὺς δὲ κειμένους φίλους καὶ πολεμίους μετ' ἀλλήλων, ἀσπίδας δὲ διατεθρυμμένας. δόρατα συντεθραυσμένα, ἔχχειρίδια γυμνά κολεῶν, τὰ μὲν χαμαί, τὰ δ' ἐν σώμασι, τὰ δ' ἔτι μετὰ χείρας.

## 2. Render into Greek prose:—

Observe also those who know what they are talking about, and what they are doing; and I think you will find that, in every occupation, the persons who are respected and admired are those who are best informed; while those who are unhonoured and despised are the most ignorant. If you wish, therefore, to be respected and admired by your countrymen, try to achieve a thorough knowledge of the thing you wish to do.

XENOPHON—*Memorabilia*.

## 3. Render the Greek of No. (1) into Greek in oblique narration, commencing as below:—

ἡ γγέλθη δὲ πρὸς τὴν πόλιν . . . .

GREEK—*Examiner, Professor Thompson, M.A., D.LIT.*

Translate:—

### 1. HOMER—*Iliad, IX.*

τῷ δὲ βάτην παρὰ θίνα πολυφλοίσβοιο θαλάσσης,  
πολλὰ μάλ' εὐχομένω γαιήοχψ ἔννοσιγαίῳ  
ρήϊδίως πεπιθέειν μεγάλας φρένας Διακίδαο.  
Μυρμιδόνων δ' ἐπὶ τε κλισίας καὶ νῆας ἰκέσθην,  
τὸν δ' εὖρον φρένα τερπόμενον φόρμιγγι λιγείῳ,  
καλῆ, δαυδαλέῳ, ἐπὶ δ' ἀργύρεον ζυγὸν ἦεν  
τὴν ἄρετ' ἐξ ἐνάρων, πόλιν Ἑτίωνος ὀλέσσας·  
τῇ ὄγε θυμὸν ἔτερπεν, αἶδε δ' ἄρα κλέα ἀνδρῶν.  
Πάτροκλος δὲ οἱ οἶος ἐναντίος ἦστο σιωπῇ,  
δέγμενος Διακίδαην, ὅποτε λήξειεν αἰείδων.  
τῷ δὲ βάτην προτέρω, ἠγείτο δὲ δῖος Ὀδυσσεύς·  
στὰν δὲ πρόσθ' αὐτοῖο· ταφῶν δ' ἀνόρουσεν Ἀχιλλεὺς  
αὐτῇ σὺν φόρμιγγι, λιπῶν ἔδος, ἔνθα θάασσεν.  
ὣς δ' αὐτως Πάτροκλος, ἐπεὶ ἴδε φῶτας, ἀέστη.  
τῷ καὶ δεκνύμενος προσέφη πόδας ὠκύς Ἀχιλλεύς.

### 2. EURIPIDES—*Medea.*

ὦ τέκνα τέκνα, δεῦτε, λείπετε στέγας,  
ἐξέλθετ', ἀσπάσασθε καὶ προσείπατε  
πατέρα μεθ' ἡμῶν, καὶ διαλλάχθηθ' ἅμα  
τῆς πρόσθεν ἐχθρας εἰς φίλους μητρὸς μέτα·  
σπονδαὶ γὰρ ἡμῖν καὶ μεθέστηκεν χόλος.  
λάβεσθε χειρὸς δεξιᾶς· οἴμοι, κακῶν  
ὣς ἔννοοῦμαι δὴ τι τῶν κεκρυμμένων.  
ἄρ', ὦ τέκν', οὕτω καὶ πολὺν ζῶντες χρόνον  
φίλην ὀρέξεται ὠλένην; τάλαιν' ἐγώ,  
ὣς ἀρτίδακρὺς εἰμι καὶ φόβου πλέα.  
χρόνῳ δὲ νεῖκος πατρὸς ἐξαιρουμένη  
ὕψιν τερεινὴν τήνδ' ἐπλησα δακρῶν.

3. XENOPHON—*Oeconomicus*.

ταῦτα δέ, ὦ Κριτόβουλε, ἐγὼ διηγοῦμαι, ἔφη ὁ Σωκράτης, ὅτι τῆς γεωργίας οὐδ' οἱ πάνν μακίριοι δύνανται ἀπέχεσθαι. ἔοικε γάρ ἡ ἐπιμέλεια αὐτῆς εἶναι ἅμα τε ἡδυνάθειά τις καὶ οἶκου αὔξησις καὶ σωμάτων ἀσκησις εἰς τὸ δύνασθαι ὅσα ἀνδρὶ ἐλευθέρῳ προσήκει. πρῶτον μὲν γὰρ ἀφ' ὧν ζῶσιν οἱ ἄνθρωποι, ταῦτα ἡ γῆ φέροι ἐργαζομένοις, καὶ ἀφ' ὧν τούτων ἡδυπαθοῦσι, προσεπιφέρει· ἔπειτα δὲ ὅσοις κοσμοῦσι βωμοῦς καὶ ἀγάλματα καὶ οἷς αὐτοὶ κοσμοῦνται, καὶ ταῦτα μετὰ ἡδίστων ὁσμῶν καὶ θεαμάτων παρέχει· ἔπειτα δὲ ὅσα πολλά τὰ μὲν φύει τὰ δὲ τρέφει· καὶ γὰρ ἡ προβατευτική τέχνη συνήπται τῇ γεωργίᾳ, ὥστε ἔχειν καὶ θεοῖς ἐξαρέσκεσθαι θύοντας καὶ αὐτοὺς χρῆσθαι.

4. XENOPHON—*Hellenica*, Book VII.

καὶ εἰ μὴ Κρής, θείᾳ τινὶ μοίρᾳ προσελθὼν, ἐξήγγειλε τῷ Ἀγησιλάῳ προσιόν τὸ στράτευμα, ἔλαβεν ἂν τὴν πόλιν, ὥσπερ νεοτιάν, παντάπασιν ἔρημον τῶν ἀμυνομένων. ἐπεὶ μὲντοι προσηυθέμενος ταῦτα ὁ Ἀγησίλαος, ἔφη εἰς τὴν πόλιν ἀπελθὼν, διαταξάμενοι οἱ Σπαρτιάται ἐφύλαττον, καὶ μάλα ὀλίγοι ὄντες· οἱ τε γὰρ ἰππέεις αὐτοῖς πάντες ἐν Ἀρκαδίᾳ ἀπῆσαν, καὶ τὸ ξενικὸν καὶ τῶν λόχων δώδεκα ὄντων οἱ τρεῖς. ἐπεὶ δὲ ἐγένετο Ἐπαμεινώνδας ἐν τῇ πόλει τῶν Σπαρτιατῶν, ὅπου μὲν ἔμελλον ἐν τε ἰσοπέδῳ μαχεῖσθαι, καὶ ἀπὸ τῶν οἰκιῶν βληθῆσεσθαι, οὐκ εἰσῆγε ταύτῃ οὐδ' ὅπου γε μηδὲν πλέον μαχεῖσθαι τῶν ὀλίγων πολλοὶ ὄντες· ἔνθα δὲ πλεονεκτεῖν ἂν ἐνόμιζε, τοῦτο λαβῶν τὸ χωρίον κατέβαινε, καὶ οὐκ ἀνέβαινεν εἰς τὴν πόλιν.

5. Parse (1) βάτην ; (2) διαλλάχθηθ' ; (3) ζῶσιν ; (4) προσιόν.

Describe the first battle of Mantinea.

Draw a ground-plan of Syracuse (*temp.* 415–413 B.C.)

6. Questions in Grammar were given *vivâ voce*.

LATIN.—*Examiner, Professor Davies, M.A., D.LIT.*

Translate into Latin Prose :—

I do not propose in this paper to be critical at all. Certainly I fulfilled the dear old lady's prophecy ; and the wooll sack, in spite of the regularity with which I afterwards "ate my terms"—I fear without digesting them, suffered a grave possible loss. By about the age of eight, I think, I had composed a five-act-tragedy in very blank verse, called 'the Poisoned Pancake' (*laganum*) which would (spaces between the acts included) have taken about ten minutes to perform (*scrupulos horae quatuor*). The personages consisted of a Royal Family and their cook (*coqua*), who poisoned them (*quae dominos regios*) out of vengeance for wrongful dismissal, every soul of them, and then committed suicide on the spot. I mean the spit. I think I must have been modelling my ideas (*fungo ingenii simulacra*) on the universal and sudden mortality (*caedes*) of everybody in general (*quot vivebant*) in the last act of 'Hamlet,' which at that time rather appalled me—for I was devoted to Shakespeare, and was *always* (*identidem*) being put upon a (*aliquis*) table to recite the quarrel between Brutus and Cassius, varied by Scott's ballad (*cantilena*) of young Lochinvar. There is no nuisance like an infant prodigy (*prodigiolium impube*) ; and a lady now living in my town (*hoc nostrum oppidulum*) who knew me as a child, assures me that of all the specimens of the class she ever saw (and we are much more common than grown-up prodigies, as far as I can see), (*et qualis eram impubis vix et, quod sciam, ne vix quidem, hirsuti nunc inveniri possunt*) I was by far the greatest nuisance (*stercus longe foetidissimum*). I entirely believe it ; for I had rapidly followed up 'the Poisoned Pancake' by a supplementary book of Pope's 'Homer,' and a short sequel (*corollarium*) of the 'Psalms of David.'—*Temple Bar*, October, 1886.

## ROMAN HISTORY.

1. Describe the battle at Campi Raudii.
2. Make a comparison between C. Marius and C. Julius Caesar as to military and political capacity.

LATIN.—*Examiner, Professor Davies, M.A., D.LIT.*

Translate :—

Quo usque tandem abutere, Catilina, patientia nostra? quam diu etiam furor iste tuus nos eludet? quem ad finem sese effrenata iactabit audacia? Nihilne te nocturnum praesidium Palatii, nihil urbis vigiliae, nihil timo populi, nihil concursus bonorum omnium, nihil hic munitissimus habendus senatus locus, nihil horum ora vultusque moverunt? Patere tua consilia non sentis? constrictam iam horum omnium conscientia teneri coniurationem tuam non vides? Quid proxima, quid superiore nocte egeris, ubi fueris, quos convocaveris, quid consilii ceperis quem nostrum ignorar arbitraris? O tempora! o mores! senatus haec intelligit, consul videt hic tamen vivit. *Vixit?* immo vero etiam in senatum venit, fit publici consilii particeps, notat et designat oculis ad caedem unum quemque nostrum. Nos autem, viri fortes, satis facere rei publicae videmur, si istius furorem ac tela vitemus. Ad mortem te, Catilina, duci iussu consulis iam pridem oportebat, in te conferri pestem quam tu in nos iam diu machinaris.

CICERO—in *Catilinam*, I.

Is there any excuse for writing *Catilina*? What was his full name

Translate :—

At sociis subita gelidus formidine sanguis  
Deriguit: cecidere animi, nec iam amplius armis,  
Sed votis precibusque iubent exposcere pacem,  
Sive deae seu sint dirae obscenaeque volucres.  
Et pater Anchises passis de litore palmis  
Numina magna vocat meritosque indicit honores:  
"Di, prohibete minas; di, talem avertite casum,  
Et placidi servate pios!" Tum litore funem  
Deripere excussosque iubet laxare rudentes.  
Tendunt vela Noti; fugimus spumantibus undis,  
Qua cursum ventusque gubernatorque vocabat.

VIRGIL.—*Aeneid*, III.

Box the compass with Latin names of winds.

Translate :—

Gallia est omnis divisa in partes tres; quarum unam incolunt Belgae, aliam Aquitani, tertiam qui ipsorum lingua Celtae, nostra Galli appellantur. Hi omnes lingua, institutis, legibus inter se differunt. Gallos ab Aquitanis Garumna flumen, a Belgis Matrona et Sequana dividit. Horum omnium fortissimi sunt Belgae, propterea quod a cultu atque humanitate provinciae longissime absunt, minimeque ad eos mercatores saepe conveant atque ea, quae ad effeminandos animos pertinent, inportant, proximique sunt Germanis, qui trans Rhenum incolunt, quibuscum continenter bellum gerunt.

CAESAR.—*Bell. Gall.*, I.

Give the modern names of those tribes and rivers.



Translate : —

Persicos odi, puer, apparatus,  
Displicent nexæ philyra coronæ ;  
Mitte sectari, rpsa quo locorum  
Sera moretur

Simplici myrto nihil allabores  
Sedulus curo : neque te ministrum  
Dedecet myrtus, neque me sub arta  
Vite bibentem.

HORACE—*Odes*, I.

Parse (Latin Grammar) "philyra," "locorum," "allabores," "te," "bibentem."

FRENCH.—*Examiner*, Professor Steinberger, M.A.

A.—Translate into English —

(a). C'était pendant le temps d'hiver "consacré à la rigoureuse pénitence du carême ; et cependant le soleil, pour ce jour de grande fête, brillait avec cet éclat qui n'appartient qu'aux plus longs jours de l'été." Sur son passage à travers la Normandie, Guillaume fut accueilli par une foule joyeuse et lorsqu'il entra à Rouen, les femmes, les vieillards, les enfants se précipitaient devant, lui, le saluant des acclamations et célébrant par leurs cris d'allégresse son glorieux retour dans sa patrie. Les prêtres chantaient des psaumes d'actions de grâces, et n'omettaient rien de ce qu'on a coutume de faire en de telles solennités, y ajoutant même tout ce qu'ils purent inventer de nouveau.—GUIZOT—*Guillaume le Conquerant*.

(b.)

HERMIONE.

Ah ! c'en est trop, seigneur.  
L'ant de raisonnements offensent ma colère.  
J'ai voulu vous donner les moyens de me plaire,  
Rendre Oreste content : mais enfin, je vois bien  
Qu'il veut toujours se plaindre et ne mériter rien.  
Partez : allez ailleurs vanter votre constance,  
Et me laissez ici le soin de ma vengeance.  
De mes lâches bontés mon courage est confus,  
Et c'est trop, en un jour, essayer de refus.  
Je m'en vais seule au temple où leur hymen s'apprête,  
Où vous n'osez aller mériter ma conquête :  
Là, de mon ennemi je saurai m'approcher ;  
Je percerai le cœur que je n'ai pu toucher ;  
Et mes sanglantes mains, sur moi-même tournées,  
Aussitôt, malgré lui, joindront nos destinées ;  
Et, tout ingrat qu'il est, il me sera plus doux  
De mourir avec lui, que de vivre avec vous.

RACINE—*Andromaque*.

B.—GRAMMATICAL QUESTIONS.

Those two sections of questions refer to the two foregoing passages.

FIRST SECTION.

1. C'était pendant le temps d'hiver. Parse *c'était* ; give, in French, the names with the gender of the seasons of the year.
2. Give negatively the present tense and past definite of *accueillir*.
3. Tout ce qu'ils purent. Parse *tout ce qu'* ; and translate :—"What pleases me in you is that you are polite towards everybody."

## SECOND SECTION

1. *Tant de raisonnements.* Give six other adverbs of quantity like *tant* requiring *de* before the following noun.

2. *Je m'en vais.* Give the whole imperative of this expression.

3. *Je saurai.* Write down the present indicative and present subjunctive of this verb.

C.—Translate into French :—

1. You ought to invite that man to your house.
2. I have just seen your sisters in the street.
3. He ought to have told it to him sooner.
4. We were about to go out when it began to rain.
5. You must set out to-morrow evening.
6. Yesterday it was very cold ; to-day it is very stormy.
7. Were there many people in the streets ?
8. I want a new coat. What do you want ?
9. Will it be necessary to get up early ?
10. Those who flatter us deceive us.

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GERMAN.—*Examiner, Professor Steinberger, M. A.*

A. Translate the following passages into English —

- (a.) Verblendeter, vom eiteln Glanz verführt,  
 Verachte dein Geburtsland ! Schäme dich  
 Der uralten frommen Sitte deiner Väter !  
 Mit heißen Thränen wirst du dich dereinst  
 Heim sehnen nach den väterlichen Bergen,  
 Und dieses Heerdenreihens Melodie,  
 Die du in stolzem Ueberdruß verschmäht,  
 Mit Schmerzensehnsucht wird sie dich ergreifen,  
 Wenn sie dir anklingt auf der fremden Erde.  
 O, mächtig ist der Trieb des Vaterlands !  
 Die fremde, falsche Welt ist nicht für dich ;  
 Dort an dem stolzen Kaiserhof bleibst du  
 Dir ewig fremd mit deinem treuen Herzen !  
 Die Welt, sie fordert andre Tugenden,  
 Als du in diesen Thälern dir erworben.  
 —Geh hin, verkaufe deine freie Seele,  
 Nimm Land zu Lehen, werd' ein Fürstenknecht,  
 Da du ein Selbstherr sein kannst und ein Fürst  
 Auf deinem eignen Erb' und freien Boden.  
 Ach, Uli ! Uli ! Bleibe bei den Deinen !  
 Geh nicht nach Altorf—O verlass sie nicht,  
 Die heil'ge Sache deines Vaterlands !  
 Ich bin der Letzte meines Stamms.—Mein Name  
 Endet mit mir. Da hängen Helm und Schild  
 Die werden sie mir in das Grab mitgeben.  
 Und muss ich denken bei dem letzten Hauch,  
 Dass du mein breuchend Auge nur erwartest  
 Um hinzugehn vor diesen neuen Lehenhof  
 Und meine edlen Güter, die ich frei  
 Von Gott empfang, von Oestreich zu empfangen.

SCHILLER—*Wilhelm Tell.*

(b.) Mein wundersamer Begleiter, der sich selbst für den unwürdigen Diener des reichsten Mannes in der Welt ausgab, war von einer ausserordentlichen Dienstfertigkeit, über die Massen gewandt und geschickt, der wahre Inbegriff eines Kammerdieners für einen reichen Mann, aber er wich nicht von meiner Seite, und führte unaufhörlich das Wort gegen mich, stets die grösste Zuversicht an den Tag legend, dass ich endlich, sei es auch nur um ihn los zu werden, den Handel mit dem Schatten abschliessen werde.

CHAMISSO—*Schlemil*.

B.—Grammatical questions.

1. Give the genitive singular and nominative plural of the following nouns :—*Der Hammer, der Fisch, das Haar, die Feder, die Stunde, die Stadt*.

2. Write down the comparative and superlative of *rund, viel, warm, streng, jung, hoch*.

3. When is the verb "to be" translated by *sein* and when by *werden*.

4. Illustrate by some examples the signification of *hin* and *her*.

5. After which verb is the preposition *zu* omitted before an infinitive ?

C.—Translate into German :—

1. Dogs are faithful animals.

2. About an hour ago I saw him taking a walk.

3. If you return in an hour, you are sure to find him.

4. He dines at six o'clock and it is now already a quarter to five.

5. 5,889,206 inhabitants (in words).

6.  $\frac{3}{4}$ ;  $\frac{1}{2}$ ;  $\frac{7}{10}$  (in words).

7. When will you set out for Paris? The day after to-morrow.

SCIENCE SCHOLARSHIPS.—FIRST YEAR.—SESSION 1886-87, ARTS, MEDICINE, AND ENGINEERING.

ARITHMETIC AND ALGEBRA.—*Examiner, Professor Allman, LL.D., D.SC., F.R.S.*

1. What is meant by the multiplication of vulgar fractions? State and prove the rules for the multiplication of vulgar and decimal fractions.

2. If .0645 of a mile be travelled in .00301 of an hour, what is the rate in yards per second?

3. Find, by Practice, the cost of 2 tons 7 cwt. 22 lbs. 5 oz. at £32 per ton.

4. By selling at £12 per ton, 6 per cent. is gained on the outlay; what would be lost per cent. by selling at the rate of  $\frac{9}{7}d.$  per lb.?

5. Find correctly to five places of decimals the value of

$$16 \left\{ \frac{1}{5} - \frac{1}{3} \cdot \frac{1}{5^3} + \frac{1}{5} \cdot \frac{1}{5^5} - \frac{1}{7} \cdot \frac{1}{5^7} \right\} - \frac{4}{239}$$

6. Simplify the expression

$$\frac{\sqrt{x+1} + \sqrt{x-1}}{\sqrt{x+1} - \sqrt{x-1}} + \frac{\sqrt{x+1} - \sqrt{x-1}}{\sqrt{x+1} + \sqrt{x-1}};$$

and prove the identity—

$$\frac{a^2b^2}{(c-a)(c-b)} + \frac{b^2c^2}{(a-b)(a-c)} + \frac{c^2a^2}{(b-c)(b-a)} = ab + bc + ca.$$

7. If  $\frac{a}{b} = \frac{a'}{b'} = \frac{a''}{b''}$ , prove that  $\frac{\sqrt{a^2 + a'^2 + a''^2}}{\sqrt{b^2 + b'^2 + b''^2}} = \frac{a}{b}$ .

8. Solve the simultaneous equations

$$\frac{1}{y} + \frac{1}{z} - \frac{1}{x} = \frac{1}{b}, \quad \frac{1}{z} + \frac{1}{x} - \frac{1}{y} = \frac{1}{b'}, \quad \frac{1}{x} + \frac{1}{y} - \frac{1}{z} = \frac{1}{c}.$$

9. A farmer bought a certain number of oxen (of equal value) for £350. He lost 5, and then sold the remainder at an advance of £6 a head on the original price. He gained £365 by the transaction; how many oxen did he buy?

10. Given that the  $p^{\text{th}}$  term of an arithmetical progression is P, and that the  $q^{\text{th}}$  term is Q; find the arithmetical progression.

GEOMETRY AND TRIGONOMETRY.—*Examiner, Professor Allman,*  
LL.D., D.SC., F.R.S.

1. If a straight line be drawn bisecting a parallelogram, show that it must pass through the intersection of the diagonals.

2. Prove that the rectangle under the sum and difference of any two lines is equal to the difference between the squares on the lines.

The sides of a triangle are 13, 14, 15; calculate the segments of the sides made by the perpendiculars from the opposite vertices.

3. Prove that the intersections of the bisectors of the internal, or external, angles of any quadrilateral are the vertices of a quadrilateral which can be inscribed in a circle.

4. Inscribe a circle in a triangle.

Prove that the radius of one of the circles touching the three sides of a right-angled triangle is the sum of the radii of the three others.

5. Two triangles have two angles equal and the sides about the equal angles proportional: prove that they are similar.

A straight line is drawn at right angles to a given finite straight line, and a length is taken on it which is a mean proportional between the segments: find the locus of its extremity.

6. Three points, A, B, C, are given on a fixed right line, and also two points, D, E, on a right line which moves about the point A; the points B E and C D are then joined: find the locus of the point of intersection of these two right lines.

7. Define the *circular measure* of an angle, and express  $30^\circ$  in circular measure.

8. Prove the following formula:

$$\tan A + \tan B + \tan C = \tan A \cdot \tan B \cdot \tan C + \frac{\sin(A+B+C)}{\cos A \cos B \cos C};$$

$$\tan A = \frac{\sin 2A}{1 + \cos 2A} = \frac{1 - \cos 2A}{\sin 2A}; \quad \sin 5A = 5 \sin A - 20 \sin^3 A + 16 \sin^5 A.$$

9. In a triangle prove the formulæ

$$\frac{\cos \frac{1}{2}(A-B)}{\sin \frac{C}{2}} = \frac{a+b}{c}; \quad \frac{\sin \frac{1}{2}(A-B)}{\cos \frac{C}{2}} = \frac{a-b}{c}.$$

10. From two stations, A and B, on shore, 3,742 yards apart, a ship, C, is observed at sea; the angles BAC, ABC are simultaneously observed to be  $72^\circ 34'$  and  $81^\circ 41'$  respectively; find the distance from A to the ship.

$$\log 3742 = 3.5731038.$$

$$\log 8.5227 = .9305774.$$

$$L \sin 81^\circ 41' = 9.9954087.$$

$$L \operatorname{cosec} 25^\circ 45' = 10.3620649.$$