

Frederickton, January 13, 1868.

His Excellency the Lieutenant Governor directs the following to be published for general information.

## UNIVERSITY OF LONDON. REGULATIONS FOR MATRICULATION.

[N. B. Candidates for the Degree of B. A., and Candidates for the Degree of B. Sc., of LL. B., or of M. B., who have not graduated in Arts in one of the Universities of the United Kingdom, are required to have passed the Matriculation Examination.

This Examination is accepted (1) by the Council of Military Education in lieu of the Entrance Examination otherwise imposed on Candidates for admission to the Royal Military College at Sandhurst; and (2) by the College of Surgeons in lieu of the Preliminary Examination otherwise imposed on Candidates for its Fellowship. It is also among those Examinations of which some one must be passed (1) by every Medical Student on commencing his professional studies; and (2) by every person entering upon Articles of Clerkship to an Attorney,—any such person Matriculating in the First Division being entitled to exemption from one year's service.]

THERE shall be two Examinations for Matriculation in each year; one commencing on the second Monday in January, and the other on the last Monday in June.

No Candidate shall be admitted to the Matriculation Examination unless he have produced a Certificate<sup>2</sup> showing that he has completed his sixteenth year. This Certificate shall be transmitted to the Registrar at least *fourteen days* before the commencement of the Examination.

A Fee of Two Pounds shall be paid at Matriculation. No Candidate shall be admitted to the Examination unless he have previously paid this Fee to the Registrar.<sup>3</sup> If a Candidate withdraw or fail to pass the Examination, the Fee shall not be returned to him, but he shall be admissible to any *two* subsequent Matriculation Examinations without the payment of any additional Fee, provided that he give notice to the Registrar at least *fourteen days* before the commencement of the Examination.

The Examination shall be conducted by means of Printed Papers; but the Examiners shall not be precluded from putting, for the purpose of ascertaining the competence of the Candidates to pass, *viva voce* questions to any Candidate in the subjects in which they are appointed to examine.

Candidates shall be examined in the following subjects:—

### MATHEMATICS.

#### ARITHMETIC.

The ordinary Rules of Arithmetic.  
Vulgar and Decimal Fractions.  
Extraction of the Square Root.

#### ALGEBRA.

Addition, Subtraction, Multiplication, and Division of Algebraical Quantities.  
Proportion.  
Arithmetical and Geometrical Progression.  
Simple Equations.

#### GEOMETRY.

The First Four Books of Euclid:—or, The principal properties of Triangles, and of Squares and other Parallelograms, treated geometrically: The principal properties of the Circle, and of its inscribed and circumscribed figures, treated geometrically.

### NATURAL PHILOSOPHY.<sup>4</sup>

#### MECHANICS.

Composition and Resolution of Statical Forces.  
Simple Machines (*Mechanical Powers*):—Ratio of the Power to the Weight in each.

<sup>1</sup> These Examinations will be held at Burlington House, London, and also, under special arrangement (see Appendix), in other Cities, Towns, and Colleges of the United Kingdom.

<sup>2</sup> A certified copy from the Baptismal Register, or a Certificate from the Registrar-General in London or from the Superintendent Registrar of the District, will be required in every case in which it can possibly be obtained. In other cases the best evidence procurable will be admitted.

<sup>3</sup> Payment of the Fee is not expected until the Candidate enters his name on the Register of the University; for which entry a time is appointed, of which he is informed when the receipt of his Certificate of Age is acknowledged by the Registrar.

<sup>4</sup> The knowledge required of these subjects in Natural Philosophy is such as may be attained by attending a Course of Experimental Lectures.

Centre of Gravity.

General Laws of Motion, with the chief Experiments by which they may be illustrated.

Law of the Motion of Falling Bodies.

#### HYDROSTATICS, HYDRAULICS, AND PNEUMATICS.

Pressure of Liquids and Gases, its equal diffusion, and variation with the depth.

Specific Gravity, and modes of determining it.

The Barometer, the Siphon, the Common Pump and Forcing-Pump, and the Air-Pump.

#### ACOUSTICS.

Nature of Sound.

#### OPTICS.

Laws of Reflexion and Refraction.

Formation of Images by Simple Lenses.

### CHEMISTRY.

Heat—its sources. Expansion. Thermometers—relations between different Scales in common use. Difference between Temperature and Quantity of Heat. Specific and Latent Heat. Calorimeters. Liquefaction. Ebullition. Evaporation. Conduction. Convection. Radiation.

Chemistry of the Non-Metallie elements; including their compounds as enumerated below—their chief physical and chemical characters—their preparation—and their characteristic tests.

Oxygen, Hydrogen, Carbon, Nitrogen. Chlorine, Bromine, Iodine, Fluorine. Sulphur, Phosphorus, Silicon.

Combining Proportions by weight and by volume. General nature of Acids, Bases, and Salts. Symbols and Nomenclature.

The Atmosphere—its constitution; effects of Animal and Vegetable life upon its composition.

Combustion. Structure and properties of Flame. Nature and composition of ordinary Fuel.

Water. Chemical peculiarities of Natural waters, such as rain-water, river-water, spring-water, sea-water.

Carbonic Acid. Oxides and Acids of Nitrogen. Ammonia. Olefiant Gas, Marsh Gas, Sulphurous and Sulphuric Acids, Sulphuretted Hydrogen.

Hydrochloric Acid. Phosphoric Acid and Phosphuretted Hydrogen. Silica.

### CLASSICS.

#### THE GREEK AND LATIN LANGUAGES.

One Greek and one Latin subject, to be selected by the Senate one year and a half previously from the works of the undermentioned authors:<sup>5</sup>

*Homer*, One Book.

*Xenophon*, One Book.

*Terence*, One Play.

*Virgil*, One Book of the Georgics, and one Book of the *Æneid*.

*Horace*, Two Books of the Odes.

*Sallust*, The Conspiracy of Catiline, or the war with Jugurtha.

*Cæsar*, Two Books of the Gallie War.

*Livy*, One Book.

*Cicero*, De Senectute or De Amicitia, with one of the following Orations—Pro Lege Manilia, one of the four Catilinarian Orations, Pro Archia, Pro M. Marcello.

*Ovid*, One Book of the Metamorphoses, and One Book of the Epistles or Heroides.

The Paper in Greek shall contain passages to be translated into English, with questions in Grammar, History, and Geography. The Paper in Latin shall contain passages to be translated into English, with questions in History and

<sup>5</sup> The Classical Subjects for 1868 and 1869 are—

For January 1868:—*Homer*, Iliad, Book V.; *Livy*, Book III. For June 1868:—*Xenophon*, Anabasis, Book II.; *Horace*, Odes, Book III., IV.

For January 1869:—*Xenophon*, the Agesilaus; *Ovid*, Metamorphoses, Book XIII., and Heroides, Epistle VII., "Dido."

For June 1869:—*Homer*, Odyssey, Book X.; *Cicero*, "De Amicitia," and the Oration "Pro Archia."