

interior of the mausoleum contains the tomb of the Prince, the remains, it is understood, being interred at present in a temporary sarcophagus till the building is furnished, when they will probably be placed in the massive granite sarcophagus lately received from Scotland.

VIII. Departmental Notices.

SUBJECTS OF EXAMINATION OF CANDIDATES (NOT BEING UNIVERSITY GRADUATES,) FOR MASTERSHIPS OF COUNTY GRAMMAR SCHOOLS IN UPPER CANADA.

Prescribed, in accordance with the provisions of the twelfth section of the Upper Canada Consolidated Grammar School Act, which requires that "Teachers of competent ability and good morals" shall give "instruction in all the higher branches of a practical English and Commercial education, including the Elements of Natural Philosophy and Mechanics, and also in the Latin and Greek languages and Mathematics, so far as to prepare Students for University College, or any College affiliated to the University of Toronto."

The provisions of the Grammar School Law which require candidates for Masterships in Grammar Schools to be examined, are as follows :

"13. No person (except a Graduate of some University) shall be appointed Master of a Grammar School unless he has previously obtained a certificate of qualification from a Committee of Examiners (one of whom shall be the Head Master of the Normal School) appointed by the Council of Public Instruction."

The Certificates given by the Committee of Examiners are of two classes. The holder of a certificate of either class will be entitled to teach a Grammar School in any part of Upper Canada, until his certificate is either revoked or recalled. The subjects of examination for each class of certificate are as follows :

SUBJECTS OF EXAMINATION FOR A SECOND CLASS CERTIFICATE.

(Being the subjects of examination for the Junior Matriculation in the University of Toronto, as prescribed by the Senate in 1864.)

GREEK AND LATIN LANGUAGES.

Lucian, Charon and Life. Cicero, for the Manilian Law.
Homer, Iliad, B. I. Virgil, Æneid B. II.
Translation from English into Latin prose.

MATHEMATICS.

Arithmetic.
First Four Rules of Algebra, and Simple Equations.
Euclid, B. I.

MODERN LANGUAGES.

English Grammar.
French Grammar and Exercises.
Voltaire, Histoire de Charles XII, Bb. I. II. III.
Corneille, Horace, Act IV.

HISTORY AND GEOGRAPHY.

Outlines of English History to the present time.
Outlines of Roman History to the death of Nero.
Outlines of Grecian History to the death of Alexander.
Outlines of Ancient and Modern Geography.

Examination in the following subjects is also required for a Second Class Certificate :—

ELEMENTS OF NATURAL PHILOSOPHY.

Mechanics.

Explain the composition and resolution of statical forces.
Describe the simple machines (mechanical powers.)
Define the Centre of Gravity.
Give the general laws of motion, and describe the chief experiments by which they may be illustrated.
State the law of the motion of falling bodies.

Hydrostatics, Hydraulics and Pneumatics.

Explain the pressure of liquids and gases; its equal diffusion and variation with the depth.
Define specific gravity, and show how the specific gravity of bodies may be ascertained.
Describe and explain the barometer, the siphon, the common pump and forcing pump, and the air pump.

Acoustics.

Describe the nature of sound.

Optics.

State the laws of reflection and refraction.
Explain the formation of images by simple lenses.

Astronomy.

Motion of the Earth round its axis and round the Sun; with applications of these motions to explain the apparent movements of the Sun and Stars, the length of days, and the change of seasons—*explanation of Eclipses and the Moon's Phases.*

ELEMENTS OF CHEMISTRY.

Properties of matter, aggregation, crystallization, chemical affinity, definite equivalents.

Combustion, flame; nature of ordinary fuel; chief results of combustion—*i. e.*, the bodies produced.

Heat: natural and artificial sources; its effects. Expansion: solids, liquids, gases. Thermometer: conduction, radiation, capacity, change of form; liquidation; steam.

The atmosphere: its general nature and condition; its component parts. Oxygen and nitrogen: their properties. Water and carbonic acid. Proportions of these substances in the air.

Chlorine and iodine, as compared with oxygen.
Water: its general relation to the atmosphere and earth; its natural states and degree of purity. Sea water, river water, spring water, rain water. Pure water: effects of heat and cold on it, its compound nature its elements.

Hydrogen: its proportion in water; its chemical and physical properties.

Sulphur, phosphorus, and carbon generally.
Nitric Acid, sulphuric acid, carbonic acid, hydrochloric acid; their properties and uses.

Alkalies, earths, oxides generally.
Salts: their nature generally. Sulphates, nitrates, carbonates.
Metals generally: iron, copper, lead, tin, zinc, gold, silver, platinum, mercury.

The chief proximate elements of vegetable and animal bodies: their ultimate composition.

SUBJECTS OF EXAMINATION FOR A FIRST CLASS CERTIFICATE.

Are 1st. The subjects of examination for a Second Class Certificate; and 2ndly, examination in the following additional branches:—

(Being the subjects of examination for the Senior Matriculation in the University of Toronto, as prescribed by the Senate in 1864.)

GREEK AND LATIN LANGUAGES.

Xenophon, Anabasis, B. V. Ovid, Fasti, B. I.
Homer, Iliad, B. VI. Horace, Odes, B. III.
Translation from Eng. into Lat. prose. Livy, B. V. ch. i. to xxv. inclusive.

MATHEMATICS.

Arithmetic.
Algebra.
Euclid, Bb. I. II, III, IV, and VI, and Definitions of B. V.
Plane Trigonometry, as far as the solution of Plane Triangles.

MODERN LANGUAGES.

English Composition.
Orthographical, Etymological and Rhetorical forms of Eng. Language.
History of English Literature from Edward III. to James I, inclusive.
French Grammar.
Montesquieu, Grandeur et Décadence des Romains.
German Grammar.
Adler's German Reader, Parts I. and II.
History of German Literature, (Gostick periods 1, 2, 3 and 4).

ELEMENTS OF MINERALOGY AND GEOLOGY.

The properties and distinctive characteristics of the commonly occurring minerals and metallic ores.
The structural characters, condition of occurrence, and classification of rocks generally.
Geological phenomena now in action, with theory of springs, currents, tides, winds, &c.

ELEMENTS OF NATURAL HISTORY:

Elements of General and Comparative Physiology.
Elements of Botanical Science, structural and systematical.

The Committee of Examiners appointed by the Council meets in the Normal School Building, Toronto, on the first Monday of January and the last Monday of June in each year. Candidates are required to send in their names to the Chairman of the Committee one week previously to the day of examination.

EDUCATION OFFICE,
TORONTO, January, 1865.