

MATRICULATION.

GREEK AND LATIN LANGUAGES.

Homer, Iliad, B. I. Cæsar, de Bello Gallico, Bb. V. and VI.
Lucian, Vita, and Charon. Virgil, Æneid, B. II.

Translation from English into Latin Prose.
Additional for Honors and Scholarships.

Homer, Iliad, B. VI. Horace, Odes, B. I.
Homer, Odyssey, B. IX. Virgil, Æneid, Bb. I and III.
Lucian, Menippus, and Timon.

Translation from English into Latin Verse.

MATHEMATICS.

ALGEBRA AND ARITHMETIC.

Ordinary rules of Arithmetic.
Vulgar and Decimal Fractions.
Extraction of Square Root.
First four rules of Algebra. (Colenso's Algebra.)

GEOMETRY.

Euclid, B. I. (Colenso's Edition of Simson's.)
Additional for Honors and Scholarships.

ALGEBRA.

Proportion and Progression.
Simple and Quadratic Equations.

GEOMETRY.

Euclid, Bb. II, III, and IV.

* † 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 syphon, 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 movements to explain the apparent movement 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; liquefaction; 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.

MODERN LANGUAGES.

ENGLISH.

Grammar, and Composition.

* The subjects marked * will not be required until 1855, except from candidates for Scholarships.

† Only a popular knowledge of these subjects will be required.

* FRENCH.

Grammar, and Translation from French into English.

Additional for Honors and Scholarships.

ENGLISH.

Rendering of English verse into prose.
Composition.

* FRENCH.

Fénélon, Dialogues des Morts.

Molière, Les Fourberies de Scapin.

HISTORY AND GEOGRAPHY.

Outlines of English History to present time.

" Roman " to death of Nero.

" Grecian " to death of Alexander.

" Ancient and Modern Geography.

Additional for Honors and Scholarships.

Egyptian History to death of Cleopatra.

History of Spain and Portugal in the reign of Ferdinand and Isabella.

SCHOLARSHIPS.

The following are offered for competition amongst candidates for admission:—

4, of the value of £30, per annum each, in the Greek and Latin languages with History and Geography.

4, of the value of £30 per annum each, in Mathematics*

2, of the value of £30 per annum each, in the English and French languages, with History and Geography.

1, of the value of £30 per annum, in the Elements of Natural Philosophy and Chemistry.

4, of the value of £30 per annum each, for general proficiency in the subjects for all students.

In the present year (1854) 8 additional scholarships, of the value of £30 per annum each, are offered for competition under the regulations of 1851.

Each of these Scholarships is tenable for one year, but the Scholars of each year are eligible for the Scholarships of the succeeding year.

FIRST YEAR.

GREEK AND LATIN LANGUAGES.

Homer, Iliad, B. IX. Virgil, Æneid, B. VI.

" Odyssey, B. I. Ovid, Fasti, B. I.

Xenophon, Anabasis, B. I. Sallust, Cataline.

Translation from English into Latin Prose.

Additional for Honors and Scholarships.

Homer, Iliad, B. X.

" Odyssey, B. X. Virgil, Æneid, Bb. VII. and VIII.

Xenophon, Anabasis, Bb. II. and III. Sallust, Jugurtha.

Translation from English into Latin verse.

MATHEMATICS.

Arithmetic.

Algebra. (Colenso's.)

Euclid. (Colenso's Edition of Simson's.)

Plane Trigonometry, as far as solution of plane triangles. (Colenso's.)

Additional for Honors and Scholarships.

Plane Trigonometry. (Colenso's.)

MODERN LANGUAGES.

ENGLISH.

Composition.

Orthographical forms of the English Language.

History of the English Language.

Additional for Honors and Scholarships.

History of English Literature, temp. Chaucer.

FRENCH.

Translation from English into French.

Molière, L'Avre.

Voltaire, Alzire.

Additional for Honors and Scholarships.

Molière, Le Tartuffe.

HISTORY.

Outlines of Ancient History.

British History, to Saxon invasion.

Additional for Honors and Scholarships.

Biography of the ages of Pericles and Augustus.

Ethnological elements of Ancient History.

METAPHYSICS AND ETHICS.

Logic. (Walker's edition of Murray's.)

Natural Theology. (Paley's.)

Additional for Honors and Scholarships.

Logic (Whatley's or Mill's.)

Cicero, de Natura Deorum, Bb. II. and III.

Cicero, Tusc. disput., B. I.

NATURAL SCIENCE.

Elements of Natural History. (Patterson's Zoology; Henfrey's Botany.)

Elements of Mineralogy and Geology. (Dana's Manual of Mineralogy; Hitchcock's Geology.)

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