

MATHEMATICAL PHYSICS AND ASTRONOMY.—(*Third Year*)—Galbraith and Haughton's Mechanics (omitting chap. 5 of Statics), Hydrostatics, Optics and Astronomy.

At the Ordinary Examination in Mechanics answers to questions on the Chapters on Friction, Collision of Bodies and Projectiles, will be taken into account only in determining the relative positions of those whose other answers shall entitle them to be placed in the First Class.

EXPERIMENTAL PHYSICS.—(*Third and Fourth Years.*)—1.—*Light*.—Theories.—Reflection.—Refraction.—Dispersion.—Interference and Diffraction.—Double Refraction.—Polarisation. 2.—*Heat*.—Dilatation of Solids, Liquids and Gases.—Specific and Latent Heat.—Radiation and Conduction.—Mechanical Theory of Heat. 3.—*Electricity*. Statical and Dynamical; including Electro-Magnetism.—Magneto-Electricity.—Thermo-Electricity.—Diamagnetism.—Electric Measurements.—Practical Applications to Telegraph, &c. 4.—*Magnetism*. 5.—*Sound*.—Theory of Undulations.—Production and Propagation of Sound.—Vibrations of Strings, Rods, and Plates.—Vibrations of Fluids.—Musical sounds. Text-Books.—Ganot's Treatise translated by Atkinson, and Tyndal on Heat. This Course extends over two years.

The Subjects for the Session 1876-77 are Electricity, Magnetism and Sound.

The Lectures in Mathematical and Experimental Physics will be illustrated by apparatus.

## 9. GEOLOGY AND NATURAL HISTORY.

(LOGAN PROFESSORSHIP OF GEOLOGY.)

Professor, J. W. DAWSON, LL.D., F.R.S., F.G.S.

### I. BIOLOGICAL COURSE.

BOTANY.—(*Second Year.*)—Vegetable Histology and Organography. Nutrition and Reproduction of Plants. Classification. Descriptive Botany. Flora of Canada. Palæobotany and Geographical Botany.

*Text-Book*.—Gray's Structural and Systematic Botany.

[A prize of \$20 will be given for the best collection of plants, and the greatest proficiency in their determination. (\*) The prize collections or duplicates of them to remain in the College Museum. Candidates must be students in Botany of the previous session.]

ZOOLOGY AND PALÆONTOLOGY. (*Third Year.*)—Elements of Animal Physiology. Classification of Animals. Characters of the Classes and Orders of Animals, with Recent and Fossil Examples.

*Text-Book*.—Dawson's Hand-book of Zoology, with Books of reference.

(\*) Form the surplus increase of the Logan Medal Fund.