

I. Animal life. II. Functions of animals. III. Histology. IV. Homology and Analogy. V. Sketch of the anatomy of certain types. VI. Comparative physiology. VII. Systems of classification. VIII. Definitions of species, genus, family, order, class, province. IX. Description of the various divisions of the animal kingdom, with the latest modifications of the classification. X. Collecting and preserving specimens. XI. Naming species. XII. Geographical distribution of animals. XIII. The fauna of Canada. Written exercises will be prescribed from time to time.

Text-book : *Patterson's Zoology*, (last edition.)

Subject of *Second Pass Examination* ;—the work of the Session. Additional for Honours, *Draper's Physiology*, Bk. I., chs. III., VIII., IX., XIV., XV., XVI., Bk. II., chs. III., IV., V. *Gray's Manual*, (new edition.)

Third Year—CHEMISTRY.

The Lectures will be fully illustrated by experiments, and also by specimens, preparations and apparatus from the Laboratory, as well as by a fine series of drawings, diagrams and tables. They will include

I. The general principles of chemical philosophy. II. The chemistry of the elements and of their combinations. III. An outline of organic chemistry. IV. The applications of chemistry in the arts and manufactures and in common life. Written exercises will be prescribed.

Text-book : *Fownes' Manual of Elementary Chemistry*, excepting Part I.

Subject of *Third Pass Examination* ;—work of the Session. Additional for Honours ;—some portions of the text-book (exclusive of the details of organic chemistry), besides those prescribed for the Pass Examination.

Fourth Year—GEOLOGY.

Mineralogy and Palæontology are included in this Department. The Lectures will be illustrated by large collections of minerals, rock-specimens and fossils from all parts of the world, and an extensive series of instructive diagrams. Heads of Lectures :—

I. Characters of minerals. II. Crystallography. III. Descriptions of the most important mineral species. IV. Physiographical geology. V. Dynamical geology. VI. Lithology. VII. Arrangement of rocks. VIII. Chronological geology. IX. Palæontology. X. Geology of Canada. XI. Geological observation and surveying. XII. Applications of Geology.

Text-books : *Dana's Manual of Geology* ; *Chapman's Minerals and Geology of Canada*.

Subject of *Final Examination* ;—the work of the Session. Additional for Honours ;—*Dana's Manual of Mineralogy* ; *Ansted's Applications of Geology*.