

Electricity.—Fundamental notions. Development of electricity. Quantitative laws of electrical action; potential and capacity. Induced electricity. Electrical machines. Condensation of electricity.

Voltaic Pile.—Detection and measurement of voltaic currents; effects of the currents. Electro-dynamics. Mutual action of currents. Magnetisation by currents. The telegraph. Voltaic induction. The electric light. Electrometallurgy. Thermo-electricity. Electric constants. Animal electricity. Outlines of Meteorology and Climatology.

Text Books:—Ganot's "Elementary Physics," (9th edition).

N.B.—The voluntary course embraces a more detailed study of the subjects above enumerated.

ALLOTMENT OF MARKS IN PHYSICS.

1st Class.

	Obligatory.	Voluntary.
Notes and Recitations.....	200
Examinations.....	800	800

APPENDIX F 11.

ROYAL MILITARY COLLEGE OF CANADA.

SUMMARY OF INSTRUCTION IN GEOLOGY AND MINERALOGY.

Total marks.....1,000.

First Class—(Voluntary).

GEOLOGY.

General characteristics of the earth's features. Distribution of the land and water. System of atmospheric and oceanic movements.

Rock material of the globe. Constituent minerals of Rocks, structure and arrangement of Rock-masses.

Rocks, in order of their formation and contemporaneous events in Geological History. Floras. Faunas. Geographical progress. Progress of life.

Effect of Life on the earth's crust, of the Atmosphere, of Water, of Heat, Glaciers, Earthquakes, &c.

Practical Geology. Methods of investigation. Measurements. Use of Clinometer and Polariscope.

Text Book:—Dana's Manual of Geology (third edition).

MINERALOGY.

First Class—(Voluntary).

General characteristics of Minerals.

Crystallization. Systems of Crystallization in detail. Cleavage. Dimorphism.

Measurement of Angles. Crystalline Aggregates.

Physical and Chemical properties of Minerals. Action of acids, blowpipe, &c.

Classification of Minerals. Description of Minerals in detail. Ores. Chemical composition of Minerals.

Methods of determination of Minerals.

Text Books:—Dana's Manual of Mineralogy and Lithology (third edition).{

Allotment of marks in Geology and Mineralogy.

First Class.

	Voluntary.
Notes and Recitations.....	200
Examinations.....	800