

## Mathematics.

*Arithmetic and Mensuration.*—To know the subject in theory and practice. To be able to solve problems with accuracy, neatness and despatch. To be ready and accurate in solving problems in Mental Arithmetic. To be familiar with rules for Mensuration of Surfaces and Solids.

*Algebra.*—The same as for Second-class certificates, with Quadratic Equations, Proportion, Progressions, Permutations and Combinations, and the Binomial Theorem.

*Euclid.*—Books I, II, III, IV. Definitions of V, and Book VI, with exercises.

NOTE.—For female teachers, the first three Books only of Euclid are required. If, however, the candidate desires a certificate of eligibility as an Examiner, the same examination must be passed in Euclid as is required of male teachers.

*Natural Philosophy and Physical Science.*—The properties of Matter. The Elementary principles of Statics, Hydrostatics, Pneumatics and Dynamics. A good general acquaintance with the subjects of Heat, Light and Electricity.

## Physical Science.

*Chemistry.*—The chief Physical and Chemical Characters, the Preparation, and the Characteristic Tests of Oxygen, Hydrogen, Carbon, Nitrogen, Chlorine, Bromine, Iodine, Fluorine, Sulphur, Phosphorus and Silicon.

Carbonic Acid, Carbonic Oxide, Oxides and Acids of Nitrogen, Ammonia, Olefiant Gas, Marsh Gas, Sulphurous and Sulphuric Acids, Sulphuretted Hydrogen, Hydrochloric Acid, Phosphoric Acid, Phosphuretted Hydrogen, Silica.

Combining proportions by weight and by volume; General Nature of Acids, Bases and Salts; Symbols and Nomenclature.

The Atmosphere—its constitution, Effects of Animal and Vegetable Life upon its composition; Combustion; Structure and Properties of Flame; Nature and Composition of ordinary Fuel.

Water—Chemical Peculiarities of Natural Waters, such as Rain Water, River Water, Spring Water, Sea Water.

*Botany.*—Applications of Chemistry to Agriculture, an Introductory course of Vegetable Anatomy and Physiology, illustrated by the examination of at least one plant in each of the Crowfoot, Cress, Pea, Rose, Parsley, Sunflower, Mint, Nettle, Willow, Arum, Orchis, Lily and Grass Families; Systematic Botany; Flowering Plants of Canada.

*Physiology.*—General view of the Structure and Functions of the Human Body; the Vascular System of the Circulation; the Blood and the Lymph; Respiration; the Function of Alimentation; Motion and Locomotion; Touch, Taste, Smell, Hearing and Sight; the Nervous System.

## Miscellaneous.

*Book-keeping.*—The same as for Second-class certificates.

## II.—PROFESSIONAL EXAMINATION.

## A.—COUNTY MODEL SCHOOLS.

1. A candidate for a Third-class certificate, shall, at the close of his session of attendance at a County Model School, be examined in the work of the session, together with any other subjects connected with the practice of teaching, which the Minister may appoint.

2. Before being admitted to this, which may be called his professional examination, the candidate must receive a certificate from the Head Master of the Model School that he has, throughout the session, paid satisfactory attention to his duties, and that he is, in the opinion of the Head Master, a fit person to be allowed to go up to the examination.

3. The professional examinations in the County Model Schools shall be held on such days as the Minister may appoint, and shall be conducted by the several County Boards.

4. They shall be partly oral and partly in writing, according to a scheme to be prepared by the Central Committee, and to be approved by the Minister.

## B.—NORMAL SCHOOLS.

## Candidates for Second-class Certificates.

1. A candidate for a Second-class certificate shall, at the close of his session of attendance at the Normal School, be examined in the work of the session, together with any other subjects connected with the practice of teaching, which the Minister may appoint.

2. Before being admitted to this, which may be called his professional examination, the candidate must receive a certificate from the Principal of the Normal School that he has, throughout the session, paid satisfactory attention to his duties, and that he is, in the opinion of the Principal, a fit person to be allowed to go up to the examination.

3. The professional examinations of the Normal School students shall be partly oral and partly in writing; they shall be held at the several Normal School seats, on such days as the Minister may appoint, and shall be conducted by the Central Committee.

## Candidates for First-class Certificates.

1. A candidate for a First-class certificate, being a student of the Normal School, shall, at the close of his session of attendance at the Normal School, be examined in the work of the session, together with any other subjects connected with the practice of teaching, which the Minister may appoint.

2. Before being admitted to this examination, the candidate must receive a certificate from the Principal of the Normal School that he has, throughout the session, paid satisfactory attention to his duties, and that he is, in the opinion of the principal, a fit person to be allowed to go up to the examination.

3. The examinations shall be partly oral and partly in writing; they shall be held at the several Normal School seats on such days as the Minister may appoint, and shall be conducted by the Central Committee.

4. Candidates for First-class certificates who are not Normal School students, shall undergo their professional as well as their non-professional examination at one of the Normal School seats, at the same time and on the same papers with those candidates for First-class certificates who are Normal School students.

## REGULATIONS AS TO THE TRAINING OF FIRST-CLASS TEACHERS IN THE NORMAL SCHOOLS.

Approved by the Lieutenant Governor in Council, 22nd June, 1877.

I. *Sessions.*—During the academic year of the Normal School, there shall be one Session for the literary, scientific, and professional training of candidates for first-class certificates. It shall begin about the 15th September, and end about the 30th of June.

II. *Requisites for admission.*—Only such students shall be admitted to the Normal School, as are Candidates for Second or First Class Certificates.

2. Candidates for First Class Certificates must, in order to be admitted to a Normal School, be holders of Second Class Provincial Certificates.

III. *Subjects of Study.*—1. The professional training of candidates for First Class certificates shall be carried on concurrently with their instruction in literary and scientific subjects.

2. In addition to the examination in the literary and scientific subjects prescribed for First-class Teachers, the Central Committee shall examine candidates, either orally or in writing, or in such other manner as may be suited to the nature of the subject, in

Education,  
School Law,  
Reading and Elocution,  
Practical Chemistry,  
Practical Botany,  
Music and Drawing,