BOTANY.

FIRST YEAR.

SATURDAY, MARCH 15TH, 1884.

Examiner,.....PROF. D. P. PENHALLOW, B.Sc.

1. Define the principles of classification and point out the essential distinctions between natural and artificial systems, as also the advantage of each.

2. State what you can concerning the proper method of collecting and preserving plants.

3. Plant food: *Its source*, general character and function.

4. Assimilation: Describe the process, together with the most important and characteristic chemical changes. Also state what are the resulting products.

5. Metastasis: The nature of the process, the characteristic chemical changes, resulting products and distinction from assimilation.

6. Fruit of Phenogams: State its morphological character; give a simple classification, and state reasons for the various morphological distinctions made.

7. The seed: Its origin, parts, function and special provision for nutrition of the young plant.

8. Describe the physical conditions essential to the promotion of assimilation, and show how this function may be varied by change of conditions.

9. *Rosace*, *Ranunculaceæ*, *Anacardiaceæ*: Describe the general habit of growth; state if injurious or useful, and in what respect, and mention some useful Canadian members, if possible.

10. *Leguminosae*, *Compositae*, *Sapindaceae*: State where these families are chiefly found; for what they are chiefly useful, and give examples of Canadian species of value.

HISTOLOGY.

FIRST YEAR.

MARCH 15TH, 1884.

Examiner,.....PROF. OSLER, M. D., F.R.C.P. LOND.

Describe the structure

(1). Of the mucous membrane of the bladder, of a bronchus and of the nose;

2. Of a liver lobule;

3. Of the grey matter of the spinal cord.

Oral and Practical.

Monday, March 17th. In the Laboratory, 1 to 5 p.m.