

SECOND YEAR.

BOTANY.

EXAMINER: PROFESSOR BELL.

1. Describe carefully the reproductive organs of a typical Phænogamous plant. Of what organ are they all believed to be modifications, and why?
2. Describe different modifications of the Ovule, Placenta, and Pericarp.
3. Explain the natural and artificial systems of classification, illustrating with examples.
4. Explain the meaning of the following terms: Hilum, Stipule, Involucre, Petiole, Stolon, Corm, Vernation, Repent, Hypogynous, Triadelphous.
5. State the ultimate chemical composition of plants, and describe the processes by which they are nourished.
6. Distinguish between definite and indefinite inflorescence, describing examples of each.
7. Mention the class and order to which each of the following plants belong: Columbine, Turnip, White Ash, Virginia Creeper, Potato, Hickory, Ladies' Slipper, Ginseng; and give examples of Lycopodiaceæ, Fungi, Algæ.