

EXAMINATION PAPERS.

SESSION 1874-1875.

PRIMARY EXAMINATION.

BOTANY.

SATURDAY, MARCH 11TH, 1876:—9 TO 12 A.M.

Examiner,.....PROFESSOR J. B. McCONNELL, M.D., U.M.

1. Describe the different forms of Vascular Tissue, with their modes of formation.
2. Describe *Starch*, *Chlorophyll* and *Raphides*, with their modes of formation and uses.
3. Describe fully the structure of an *Exogenous* Stem, and state what is meant by *Indefinite*, *Definite* and *simultaneous vascular bundles*.
4. Describe the following modifications of the Stem with examples: *Corm*, *Bulb*, *Runner*, *Stolon*, and *Rhizome*, and distinguish between the latter and a root.
5. Describe the structures in the blade of a Leaf.
6. Explain the law of Phyllotaxis as applied to alternate leaves.
7. Explain the terms *Pinnatifid*, *Bipinnatifid*, *Tripinnatisect*, *Lyrate*, *Cordate*, *Obovate* *Saggitate* and *Reniform*, as applied to leaves.
8. Describe the structure and functions of the *anther*, *pollen* and *nucleus* of the Ovule.
9. Explain fertilization in *Phænogams* and the formation of the embryo.
10. Give the *characters* of any exogenous order containing medicinal plants.
11. Explain the terms, *Androphore*, *Perianth*, *Septicidal*, *Whorl*, *Anatropous* and *Convolute*.
12. Describe the Specimens exhibited in relation to the forms of their leaves and the characters of their inflorescence, and refer them to their *series* and *class*.