

Exam. Code : 103201

Subject Code : 1264

B.A./B.Sc. 1<sup>st</sup> Semester

BOTANY

Paper-IB (Diversity of Cryptogams)

Time Allowed—3 Hours] [Maximum Marks—35

**Note** :— Attempt **five** questions in all, selecting at least **one** question from each Section. Draw neat labelled diagrams in support of your answer. **Fifth** question may be attempted from any Section. All questions carry equal marks.

**SECTION-A**

1. Explain the alternation of generations in bryophytes. Discuss its advanced features.
2. Define bryophytes. Explain the morphological and anatomical features. Draw the diagrammatic representation of life cycle.

**SECTION-B**

3. Give a detailed account of classification of Hepaticopsida, enlisting characters upto order level.
4. Give an illustrated account of the structures in gametophyte and sporophyte of *Anthoceros*.

### SECTION-C

5. Compare important features of *Lycopsidea* and *Sphenopsida*.
6. (a) Discuss the advanced features of Pteropsida alongwith neat labelled diagrams.  
(b) Explain reproduction in *Rhynia*.

### SECTION-D

7. Draw neat labelled diagrams of the following :
  - (a) Vertical transverse section of the sporocarp of *Marsilea*.
  - (b) L.S. of mature strobilus of *Equisetum*.
8. Describe the life history of *Pteris*.