

Exam. Code : 103201

Subject Code : 1264

B.A./B.Sc. 1st 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*.

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