

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. The **fifth** question may be attempted from any Section. All questions carry equal marks. Draw neat labelled diagrams in support of your answer.

SECTION-A

1. Why bryophytes are called amphibians ? How are they advanced over algae to adapt to land habit ?
2. Explain sexual reproduction in bryophytes. Draw diagrams also.

SECTION-B

3. Draw neat labelled diagrams of the following :
 - (a) V.S. sporophyte of *Anthoceros*.
 - (b) V.S. sporophyte of *Marchantia*.
4. Give a detailed account of classification of bryopsida.

SECTION-C

5. Explain characteristic features of pteropsida.
6. Explain structure and reproduction in *Rhynia*.

SECTION-D

7. Explain external as well as internal feature of *Equisetum*.
8. Draw well labelled diagrams of :
 - (a) V.T.S. of sporocarp of *Marsilea*.
 - (b) L.S. strobilus of *Selaginella*.