

Exam. Code : 103201  
Subject Code : 1251

B.A./B.Sc. 1<sup>st</sup> Semester (Batch 2021-24)

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.

SECTION—A

1. Describe the typical modes of reproduction in bryophytes. 7
2. Write short notes on :
  - (i) Thallus structure in a thalloid bryophyte
  - (ii) General features of Amphibians of Plants. 3.5+3.5=7

SECTION—B

3. Write an account of typical thallus structure and sporogonium in *Anthoceros*. 7

4. Write short notes on :

- (i) Salient features of Marchantiales
- (ii) Apical region in capsule of *Funaria*.

3.5+3.5=7

SECTION—C

5. Describe the typical life cycle of a heterosporous Pteridophyte. 7
6. Write short notes on :
  - (i) Stele structure in Pteridophytes
  - (ii) Important features of Sphenopsida. 3.5+3.5=7

SECTION—D

7. What is leptosporangiate development ? Discuss the reproduction in a leptosporangiate Pteridophyte.
8. Write short notes on :
  - (i) Economic importance of pteridophytes
  - (ii) Structure of sporangium in *Equisetum*. 3.5+3.5=7