

2316

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Class – M.Sc. I (BOT)

Subject – BOT- 521

Paper – BRYOPHYTES & PTERIDOPHYTES

Time Allowed : 3 Hours

Maximum Marks : 75

Section-A

Attempt all. Each carries 1 mark.

1. (i) Why bryophytes are called Amphibians?
- (ii) Why Anthoceros is called horn wort?
- (iii) Give leaf arrangement in Porella.
- (iv) Describe flash cup mechanism of Pollination.
- (v) Why Isoetes is called strobilus.
- (vi) What is Actinostele & Dictyostele?
- (vii) Why rhizophore is called organ surgeneresis?
- (viii) Define syngonium & Coenosorus. $1 \times 8 = 8$

Attempt any 7. Each carries 3 marks.

2. Compare gametophyte of Riccia & Marchantia.
3. Give structure of gametophytic thallus of Anthoceros.
4. Compare morphology of Targionia, Cyathodium & Lunularia.
5. Differentiate between Liverworts & Mosses.
6. Write a note on Rhynia.
7. Describe stellar system evolution in Pteridophytes.
8. Differentiate between Ophioglossum & Botrychium.
9. Give anatomical detail of equisetum Rhizome & Stem.

10. Write a note on order Prilotales. 7 x 3 = 21

Attempt any 3. Each carries 7 marks.

11. (a) Describe in detail development of Antheridia & Archegonia in Marchantiales.

(b) Give structure of sporogonium of Anthoceros.

12. Give origin of Pteridophytes by Telome theory.

13. Explain in detail origin of Bryophytes.

14. Write an essay on Prothallial evolution in Pteridophytes.

15 (a) What is heterospory? Explain in detail with evidences.

(b) Give economic importance of Bryophytes.

3 x 7 = 21
