Paper - BRYOPHYTES & PTERIDOPHYTES

Time Allowed: 3 Hours Maximum Marks: 75

Section-A

Attempt all. Each carries 1 mark.

- (i) Why bryophytes are called Amphibians?
 - Why Anthoceros is called horn wort? (ii)
 - Give leaf arrangement in Porella. (iii)
 - Describe flash cup mechanism of Pollination. (iv)
 - (v) Why Isoetes is called strobilus.
 - What is Actinostele & Dictyostele? (vi)
 - Why rhizophore is called organ suigeneresis? (vii)
 - Define synangium & Coensorus. (viii)

 $1 \times 8 = 8$

Attempt any 7. Each carries 3 marks.

- Compare gametophyte of Riccia & Marchantia.
- Give structure of gametophytic thallus of Anthoceros.
- Compare morphology of Targionia, Cyathodium & Lunularia.
- Differentiate between Liverworts & Mosses.
- Write a note on Rhynia.
- Describe stelar system evolution in Pteridophytes.
- Differentiate between Ophioglossum & Botrychium.
- Give anatomical detail of equisetum Rhizome & Stem. 30/2

Attempt any 3. Each carries 7 marks.

- Describe in detail development of Antheridia & 11. (a) Archegonia in Marchantiales.
 - Give structure of sporogonium of Anthoceros. **(5)**
- 12. Cive origin of Pteridophytes by Telome theory.
- 13. Explain in detail origin of Bryophytes.

10. Write a note on order Prilotales.

- 14. Write an essay on Prothallial evolution in Pteridophytes.
- 15 (a) What is heterospory? Explain in detail with evidences.
 - Give economic importance of Bryophytes. (b)

 $3 \times 7 = 21$
