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Exam. Code: 103201 Subject Code: 1292

B.A./B.Sc. 1st Semester

BOTANY

Paper—I (B)

(Diversity of Cryptogams)

Time Allowed—3 Hours] [Maximum Marks—35

Note: — Attempt *five* questions in all. Question No. 1 is compulsory. Each question carries 7 marks.

- 1. (i) What is the characteristic common to bryophytes and pteridophytes?
 - (ii) What is the difference between elaters of Marchantia and of Equisetum?
 - (iii) Define Heterospory.
 - (iv) Define Actinostele.
 - (v) How is columella of *Anthoceros* different from that of *Funaria*?
 - (vi) What is ligule?
 - (vii) What is gemma? Explain its germination.
- 2. Draw neat labeled diagrams of the following:
 - (i) V.S. sporophyte of Anthoceros.
 - (ii) V.S. capsule of Funaria.

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(Contd.)

- How does the thallus of Anthoceros differ from that of Marchantia morphologically as well as anatomically?
- Explain sexual reproduction in Funaria. 4.
- 5. What type of alternation of generations is present in bryophytes? Explain the life cycle of bryophytes.
- Explain in detail the sporophyte of Selaginella. 6.
- Describe the structure and reproduction in Rhynia. 7.
- 8. Give an illustrated account of morphological as well as anatomical features of sporophyte of Marsilea.
- Explain the structure of fertile leaflet of Pteris, giving 9. the dehiscence of sporangia also.

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