

A-S-2110

DIVERSITY OF CRY PTOGAMS-II
SEMESTER-I

TIME 3 HOURS

MM: 40

Note: Candidates are required to attempt two questions from each section A and B and the entire section C which is compulsory.

Section – A

1. Elaborate the range of variation in cell wall, flagella and reserve food material in algae. (6)
2. Write down the systematic position of genus *Oedogonium*. Describe its life history. (6)
3. Explain the details of reproduction in *Sargassum*. (6)
4. Comment on economic importance of algae. (6)

Section – B

5. Give a detailed account of structure of gametophyte and sporophyte of *Funaria*. (6)
6. Compare the sporophyte of *Marchantia* and *Anthoceros*. (6)
7. List the salient features of *Marsilea*. Describe the structure of spore producing organ in *Marsilea*. (6)
8. Elaborate the morphological and anatomical details of *Equisetum* sporophyte. (6)

Section – C

9. Answer the following questions in brief.
 - a. Give an outline of Robert Lee's classification of algae.
 - b. Define coenocytic thallus and give its example.
 - c. What is Chytrid stage?
 - d. Write down the characteristic features of *Ectocarpus*.
 - e. Briefly discuss the affinities of *Anthoceros*.
 - f. What are gemma cups?
 - g. Differentiate between true and false indusium.
 - h. What are Fern allies?

(2×8 = 16)