

7. Write down the features of sporophyte in Bryophytes. Discuss the evolution of sporophyte in Bryophytes. 6

8. Write a detailed note on morphology and reproduction in *Rhynia*. 6

SECTION—C

9. Answer the following questions briefly :

(a) Differentiate between *Phaeophyceae* and *Rhodophyceae*.

(b) Elaborate the role of algae in human welfare.

(c) What is a Diplohaplontic life cycle ? Give an example.

(d) List the important features of *Xanthophyceae*.

(e) Differentiate between liverworts and hornworts.

(f) Why Bryophytes are known as amphibians of plant kingdom ?

(g) What is a sporocarp ?

(h) Define the term ligule. 8×2=16

Roll No.

Total No. of Pages : 2

PC 11440-NH

AS/2111

DIVERSITY OF CRYPTOGAMS—II

Semester—I

Time Allowed : Three Hours]

[Maximum Marks : 40

Note :— The candidates are required to attempt *two* questions each from Sections A and B. Section C will be compulsory.

SECTION—A

1. Discuss the thallus organization and variation in reserve food material in different classes of algae. 6

2. Name the class in which *Sargassum* is placed. Describe its life history. 6

3. Explain the details of most accepted system of classification proposed for algae. 6

4. Write a detailed note on sexual reproduction in *Volvox*. 6

SECTION—B

5. Describe the structure of gametophyte and sporophyte of *Funaria*. 6

6. Discuss the life history of a homosporous member of *Pteropsida*. 6