

B.Sc. (Part I) Examination 2020

Botany Paper II

(Algae and Bryophyta)

MM45

Time:- 3 Hrs

Note:- (i) Answer five question in all.

(ii) Question No. 1 is compulsory.

(iii) Answer remaining four question from Section 'A' and 'B' but not more than two question from each section.

(iv) All question carry equal marks.

1- Write short notes on any five of the following-

a- Charismatic stage OR Gongrosira Stage

b- Heterocyst OR Peristome

c- Sex organ of Chara OR Elaters

d- Protopodium OR Archegonium

e- Gemma

f- Monospore

Section-A

2- Describe Sexual Reproduction in Vaucheria with suitable diagrams.

3- Give an account of thallus structure and life cycle of Batrachospermum.

4- Give a comparative account of thallus structure of Riccia, Marchantia and Pellia.

OR

Describe in detail the structure of Sargassum with suitable figure. Give its life cycle.

5- Discuss alternation of generation with reference to the life history of Ectocarpus.

OR

Compare the Sporophyte of Porella and Sphagnum

Section-B

6- Describe in brief (Any two)

a- Structure of Chlamydomonas.

b- Economic Importance of Algae

c- General Classification of Bryophyta.

7- Write short notes on the following (Any two)

a- Sporophyte of Anthoceros.

b- Reproduction in Algae

c- Vegetative reproduction in bryophytes

8- Write short notes (Any two)

a- Nannandrium

b- Ultrastructure of cyanophycean cell

c- Riccia Sporophyte

9- Describe the following (Any two)

a- Rhizoids and scale in bryophytes

b- Coenobium

c- Sphagnum leaf