

PDO-168-S.E.-CV-19

M.Sc. BOTANY (1st Semester), ATKT

Examination, Dec.-2020

BIOLOGY & DIVERSITY OF ALGAE BRYOPHYTES & PTONDOPHYTES

Time : Three Hours]

[Maximum Marks : 80

[Minimum Pass Marks : 29

Note : Answer from both the Sections as directed. The figures in the right-hand margin indicate marks.

Section-A

1. Answer the following questions:- **1x10=10**

- (a) Write the name of terrestrial Algae
- (b) Write the name of parasitic Algae.
- (c) Give the name of algae which is found inside the thallus of Anthoceros.
- (d) Which scientist given the word “Thallophyta”.
- (e) How many teeth found in Funeria.
- (f) Write the name of pterophyta which have “ligule”.
- (g) Which pteridophyte having “Circinate” ptyxis in young stage.
- (h) Write the name of “club-mass”.
- (i) Write a name of Indian pteridologist.
- (j) Write any two name of cyanobacteria.

2. Answer the following questions in brief:- **2x5=10**

- (a) Gaidukov phenomena.
- (b) Gongrosira stage of vaucheria.
- (c) Gema cup.
- (d) Economic importance of Bryophyta.
- (e) Heterospory. .

Section-B

15x4=60

Answer the following long-answer type questions with suitable diagrams.

3. Write the ranges of thallus found in algae write their phylogeny.
OR
Write an illustrated account of the modes of reproductions in the algae studied by you.

4. Write the general accounts of chlorophyta with life-cycle of any one member of chlorophyta.
OR
Write short note on the following:-

- (a) Division xanthophyta (b) Algal biofertilizers.

5. Discuss comparative account of sporophyte of marchantia and Anthoceros. Why it is more move develop. Explain?
OR
Justify the statement “Anthoceros is a synthetic group”.

6. Write the general accounts of psilopsida.
OR
Describe the life cycle of sileginella.