



Register Number:

Date: 07-01-2021

ST. JOSEPH'S COLLEGE (AUTONOMOUS), BENGALURU - 560027

M.Sc., BOTANY- I SEMESTER EXAMINATION: JANUARY - 2021

BO - 7218: ALGAE AND BRYOPHYTES

Time: 2 ½ hours

Max Marks: 70

**This Question paper has one printed page and three parts*

** Draw diagrams wherever necessary*

A. Explain briefly / Define any TEN of the following:

2 x 10 = 20

1. Effect of algal toxins
2. Tubers
3. Chromoplasm
4. Any 2 similarities between algae and bryophytes
5. Cryophytes
6. Slime pore
7. Phytoplankton
8. Walton
9. Any 2 examples of algae in agar
10. Acrogynous
11. Deuter cells
12. Pseudoelaters

B. Write a short account on any FIVE of the following:

6 x 5 = 30

13. Classification of algae based on pigments
14. Morphology and anatomy of *Plagiochasma* thallus
15. Vegetative reproduction in algae
16. Medicinal importance of bryophytes
17. Sporophyte of *Polytrichum*
18. Filamentous habit of algae
19. A) Structure of Diatom cell B) Structure of Bryophyte cell

C. Write a comprehensive account on any TWO of the following:

10 x 2 = 20

20. Comparative account on Takakiales and Funariales
21. Diplontic and diplobiontic life cycles in algae
22. A) Importance of algae in agriculture as bio fertilizers
B) Gametophyte of *Porella*