

ST.JOSEPH'S COLLEGE (AUTONOMOUS), BENGALURU - 560027
I M.Sc., BOTANY – I SEMESTER
SEMESTER EXAMINATION – OCTOBER 2018
BO 7218: ALGAE AND BRYOPHYTES

Time: 2½ hrs

Max. Marks: 70

This question paper has ONE printed page and THREE parts
Instructions: Draw diagrams and write examples wherever necessary

A. Explain any TEN of the following in two or three sentences: 10 x 2= 20

1. Thermophytes
2. Phyllids
3. Algin
4. Apospory
5. Physiological Anisogamy
6. Peat
7. Frustule
8. Amphigastria
9. Carpogonium
10. Pseudoelater
11. Hadrome
12. Homocystous filaments

B. Write Critical notes on any FIVE of the following: 5 x 6=30

13. Characteristic features of the order Jungermanniales and its affinities with Marchantiales
14. a. Morphology of *Notothylus* gametophyte
b. Structure of Globule
15. Economic importance of Rhodophyceae
16. Phylogeny of Algae
17. Flower of Moss
18. Thallus structure in Phaeophyceae
19. V.S. of sporophyte of *Andreaea*

C. Give a comprehensive account of any TWO of the following 2 x10=20

20. a. Interrelationship of Bryophyta with Algae
b. Photosynthetic pigments in algae
21. Fossil Bryophytes
22. Diplontic and Diplobiontic life cycles in algae