 **ST JOSEPH’S UNIVERSITY, BENGALURU-27**

Registration Number:

Date & Session:

 **M. Sc. BOTANY – I SEMESTER**

**SEMESTER EXAMINATION: OCTOBER 2023**

**(Examination conducted in November/ December 2023)**

**BO7223 – Algae and Bryophytes**

**(For current batch students only)**

**Time: 2 Hours Max Marks: 50**

This paper contains **ONE** printed page and **THREE** parts

Draw labelled diagrams and give suitable examples wherever necessary

1. **Answer ANY FIVE of the following in two to three sentences 2 × 5 = 10**
2. Any two adaptations of benthic algae
3. Siphonaceous thallus in class Xanthophyceae
4. Ecological importance of Cyanophyceae members
5. Elaters and Pseudoelaters
6. Retort cells
7. Pteridophytean origin of bryophytes
8. Fossil bryophytes are poorly preserved, justify
9. **Write critical notes on ANY FIVE of the following 6 × 5 = 30**
10. Molecular taxonomy of algae
11. Thallus organization in class Phaeophyceae
12. Schematic representation of haplobiontic type of life cycle
13. Affinities of class Chlorophyceae and Charophyceae
14. Characteristic features of the class Anthocerotopsida
15. Affinities of order Polytrichales
16. Economic importance of Bryophytes
17. **Give a comprehensive account of ANY ONE of the following 10 × 1 = 10**
18. Reproduction in class Bacillariophyceae
19. Morphology and reproduction of *Porella*