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

Registration Number:

Date & session:6-12-2022 ( 1pm )  
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**M.Sc. (BOTANY) – I SEMESTER**

**SEMESTER EXAMINATION: OCTOBER 2022**

**(Examination conducted in December 2022)**

**BO 7221 – ALGAE AND BRYOPHYTES**

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

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

**Draw diagrams and give examples wherever necessary**

1. **Answer ANY FIVE of the following in 2-3 sentences each 2 × 5 = 10**
2. Desert algae
3. Centric and pennate diatoms
4. Apospory
5. Scales in Bryophytes
6. Cyanotoxins
7. Amphigastrial leaves
8. An alga which shows affinities with Bryophytes and mention any two of its advanced features
9. **Write critical notes on ANY FIVE of the following 6 × 5 = 30**
10. Diversity of reserve food material in algae
11. Comparative analysis of the sporophytes of *Funaria* and *Sphagnum*
12. Pteridophytean origin of Bryophytes
13. Haplobiontic life cycle in algae
14. Slime papillae in *Takakia*
15. Thallus organization in class Phaeophyceae
16. State any six recent advances in the study of Bryophytes
17. **Give a comprehensive account of ANY ONE of the following 10 × 1 = 10**
18. Development and structure of reproductive structures in *Sphaerocarpos*
19. Reproduction in class Chlorophyceae