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Register Number :

Date :

**ST. JOSEPH’S COLLEGE (AUTONOMOUS), BENGALURU-27**

**M. Sc. BOTANY- I SEMESTER**

**SEMESTER EXAMINATION - OCTOBER 2021**

(Examination conducted in January-March 2022)

**BO 7221 - Algae and Bryophytes**

**Time- 2½hrs Max. Marks: 70**

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

1. **Define/ explain any TEN of the following 10 × 2 = 20**
2. Any two unique features of the cell structure of Cyanophyceae members
3. Desert algae and any two of its adaptations
4. Auxospore
5. Class Phaeophyceae show some advanced characters - Justify
6. Affinities of *Chara* with Bryophytes
7. Rhizoids in class Hepaticopsida
8. Gemmae
9. Amphigastria
10. Hydroids and leptoids
11. Retort cells
12. *Naiadita lanceolata*
13. Any two recent advances in study of Bryophytes
14. **Write critical notes on any FIVE of the following 5 × 6 = 30**
15. Open and closed system of cultivation of microalgae
16. Schematic representation of a triphasic life cycle of an algae you have studied
17. Plastid and pigment diversity in eukaryotic algae
18. Pteridophytean origin of Bryophytes with evidences in support of the theory
19. Characteristic features of order Takakiales
20. Sporophyte of *Polytrichum*
21. Direct uses of Bryophytes
22. **Give a comprehensive account of any TWO of the following 2 × 10 = 20**
23. Reproduction in class Chlorophyceae
24. Diversity of thallus organisation in class Xanthophyceae
25. Morphology and anatomy of gametophyte & reproductive structures in *Notothylas*

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