



Register Number :

Date : **09-01-2021**

ST. JOSEPH'S COLLEGE (AUTONOMOUS), BANGALORE-27
B.Sc. – I SEMESTER
SEMESTER EXAMINATION: JANUARY 2021
BO 118 : MICROBIOLOGY AND ALGAE

Time- 2 ½ hrs

Max Marks-70

This paper contains ONE printed page and THREE parts
Draw diagrams and write examples where necessary

A. Answer any TEN of the following in two or three sentences 10 X 2 = 20

1. Glycocalyx
2. Hfr cell
3. Transposons
4. Endospore
5. False branching
6. Endophytic algae
7. Cryophytes
8. Algal blooms
9. A single cell of *Volvox*
10. Louis Pasteur
11. Agglutination
12. T cell

B. Write short notes on any FIVE of the following 5 X 6 = 30

13. Structure of TMV
14. Hybridoma technology
15. Innate and acquired immunity
16. Transduction in bacteria
17. Economic importance of algae (any 6 with specific examples)
18. Sexual reproduction in *Hydrodictyon*
19. Male sex organ in *Chara*

C. Give a comprehensive account of any TWO of the following 2 X 10 = 20

20. Structure of Gram negative and Gram positive bacterial cell wall
21. Sexual reproduction in *Vaucheria*
22. Haplobiontic type of life cycle

BO 118_A_21