



Register Number:

DATE:17-10-2019

ST. JOSEPH'S COLLEGE (AUTONOMOUS) BANGALORE- 27
B.Sc BOTANY – I SEMESTER
SEMESTER EXAMINATION – OCTOBER 2019
BO 118: MICROBIOLOGY AND ALGAE

TIME: 2 ½hrs.

Max. Marks: 70

This question paper has ONE printed pages and THREE parts
Instruction: Draw diagrams & write examples wherever necessary

I. Explain or define any TEN of the following in two or three sentences 10x2=20

1. Viroids
2. Autoimmunity
3. Anton Van Leeuwenhoek
4. LPS is an endotoxin. Justify
5. Bacteria in food industry
6. Fimbriae
7. Algae in sewage treatment
8. Pseudoparenchymatous algae
9. Amylum stars
10. Lateral conjugation
11. A single cell of *Volvox*
12. Endophytic algae

II. Write critical notes on any SIX of the following 5x6=30

13. Salient features of Mycoplasma
14. Sexual reproduction in *Hydrodictyon*
15. Haplontic & haplobiontic lifecycles in algae
16. Gram +ve Bacterial cell wall
17. Hybridoma technology and its role in making monoclonal antibodies
18. Structure & reproduction in *Scytonema*
19. Life cycle of TMV

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

20. Transduction in Bacteria
21. Structure & Reproduction of *Vaucheria*
22. Filamentous thallus organization in Algae