



Register Number :

Date :

ST. JOSEPH'S COLLEGE (AUTONOMOUS), BANGALORE-27
M.Sc. – I SEMESTER
SEMESTER EXAMINATION: OCTOBER 2018
BO 7118 : MICROBIOLOGY, MYCOLOGY AND PLANT PATHOLOGY

Time- 2 ½ hrs

Max Marks-70

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

A. Define any TEN of the following in two or three sentences $10 \times 2 = 20$

1. Periplasmic space
2. Epidemic and Sporadic diseases
3. Herd immunity
4. Opportunistic pathogens
5. Haematopoiesis
6. Interferons
7. Mycotoxins
8. Zygosporangium
9. Heterothallism
10. Smut of Maize
11. *Phytophthora infestans*
12. Inoculum potential

B. Write critical notes on any FIVE of the following $5 \times 6 = 30$

13. Outline the Baltimore's system of classification of viruses
14. Staining techniques for microbes
15. Elucidate the host-microbe interaction in symbionts and commensals
16. Structure, types and major functions of antibodies
17. Vaccines
18. Economic importance of fungi
19. Coffee rust disease

C. Give a comprehensive account of any TWO of the following $2 \times 10 = 20$

20. a) Mycobacterial cell wall
b) MHC
21. Salient features and life cycle of Ascomycotina
22. Methods of plant disease management