

St. Joseph's College (Autonomous), Bangalore – 560027

M.Sc Botany I Semester

Semester Examination- January 2021

BO 7118 Paper-I Microbiology, Mycology and Plant Pathology

Time: 2 ½ hrs

Max Marks: 70

*This question paper has ONE printed page and three parts
Draw diagrams wherever necessary*

A. Explain or define any TEN of the following in two or three sentences 10X2=20

1. Bacterial blight
2. Cytokine
3. Dolipore septum
4. Immunostaining
5. Significance of 16SrRNA in phylogenetic analysis
6. MHC-1
7. Pathogenicity
8. Phytoalexins
9. Somatogamy
10. Stroma
11. Vaccine
12. Virulence

B. Write critical notes on any FIVE of the following 5X6=30

13. Aflatoxins
14. Baltimore's system of virus classification
15. Structure of Basidiocarp
16. Gametangial copulation in fungi
17. Industrial & Medicinal uses of fungi
18. Phagocytosis
19. Structure of Antibody

C. Write a comprehensive account of any TWO of the following 2X10=20

20. Describe Gram positive & Gram negative cell wall
21. Explain complement system with reference to classical pathway
22. Salient features and life cycle of *Ascomycotina*