

**Reg. No.:**

**Date: 3-12-22 (1PM)**

**St. Joseph’s University, Bangalore-560027**

**M.Sc. Botany I Semester**

**Semester Examination - October 2022**

(Examination conducted in December 2022)

**BO 7121 – MICROBIOLOGY, MYCOLOGY AND PLANT PATHOLOGY**

**Time: 2 hrs. Max. Marks: 50**

**This question paper has ONE printed page and THREE parts**

**Draw diagrams wherever necessary**

1. **Explain or define any FIVE of the following in two or three sentences 5x2=10**
2. Negative staining
3. Capsomeres
4. Interleukin 1
5. Nosocomial infection
6. Parasexuality in fungi
7. Granulocytes
8. Aflatoxin
9. **Write critical notes on any FIVE of the following 5x6=30**
10. Pathogenicity test and Koch’s postulate
11. Cell types associated with host resistance and their functions
12. Bipolar & Tetrapolar heterothallism in fungi
13. Methods used for purification of viruses
14. Biochemical defense mechanism in plants
15. Antibody diversity in the Immune system
16. Bacterial leaf blight of paddy
17. **Write a comprehensive account of any ONE of the following 1x10=10**
18. Sexual reproduction in Basidiomycotina until the formation of basidia
19. Compare the cell wall composition of *Mycobacterium* with that of the Gram-negative bacteria