

**Reg. No.:**

**Date:**

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

**M.Sc. Botany I Semester**

**End Semester Examination: October 2023**

**BO 7123 – MICROBIOLOGY, MYCOLOGY AND PLANT PATHOLOGY**

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

**(For current batch students only)**

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

**(*Draw diagrams and give examples wherever necessary*)**

1. **Answer any FIVE of the following in two or three sentences 5x2=10**
2. Haemagglutanin
3. Zeihl-Neelsen staining
4. Sporadic disease
5. Herd Immunity
6. Basophils
7. Homothallic gametangial contact
8. Downy mildew of grapes
9. **Write short notes on any FIVE of the following 5x6=30**
10. 16s rRNA sequencing for bacterial classification.
11. Distinguish between toxoids and vaccines.
12. Humoral mediated immune response.
13. Salient features of the class Ascomycotina
14. Parasexuality in fungi
15. Asexual reproduction in fungi
16. What is plant disease indexing and forecasting?
17. **Write a comprehensive account of any ONE of the following 1x10=10**
18. Outline the classification of Mastigomycotina and describe the life cycle of any one form belonging to this class.
19. Discuss the host microbe relationships found in nature.