

Date:

Registration number:

ST. JOSEPH’S COLLEGE (AUTONOMOUS), BENGALURU-27

M.Sc. BOTANY - I SEMESTER

SEMESTER EXAMINATION: OCTOBER 2021

(Examination conducted in January-March 2022)

**BO 7121 – Microbiology, Mycology & Plant Pathology**

Time- 2 ½ hrs Max Marks-70 M

This question paper contains **one** printed page and **Three** parts

**Part-A:**

**Answer any 10 questions in one or two sentences 10X2= 20**

1. Define the Viral Capsid?
2. Baltimore Class VI
3. Define simple staining with examples.
4. Quadrative streaking
5. Types of Immunoglobulins
6. Exotoxins and Endotoxins
7. Koch’s postulates
8. Plant Disease Indexing
9. Alkaloids as defence compounds
10. Aflatoxins
11. Habitat of fungi
12. Write any four Differences of the Ascomycotina, and Basidiomycotina?

**Part-B:**

**Write short notes on any 5 questions` 5X6= 30**

1. Methods of purification of viruses?
2. Enumerate the structure of Mycobacterial Cell Wall?
3. Describe briefly about reservoirs of Infection with examples
4. How will you control the diseases in community
5. Compare the symptoms of Bacterial leaf blight of Paddy with Coffee rust
6. Ainsworth classification of fungi
7. Compare and the concepts of Heterothallism & Parasexuality in Fungi

**Part-C:**

**Explain any 2 questions in detail 2X10= 20**

1. Describe the Cells involved in immune system with examples
2. Describe the salient features & life cycle of Mastigomycotina
3. Explain the Methods of Plant Disease Management