

Date:

Registration number:

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

**B.Sc. BOTANY - I SEMESTER**

**SEMESTER EXAMINATION: OCTOBER 2021**

(Examination conducted in January-March 2022)

**BO 121 - Botany**

**Time- 3 hrs Max Marks-100**

**This question paper contains ONE printed page and three parts**

**Part A**

**Part-A: Answer any 12 questions in one or two sentences**

**12×2= 24**

1. Koch Postulates

2. Monera

3.Zeihl-Neelsen staining

4. Transport media

5. Tyndallization

6. Log phase of microbial growth

7. ATCC

8. Prions

9. Endotoxin

10. Hfr strain

11. Dolipore septum

12. Gametangial contact

13. VAM

14. Causal organism of Rice blast and one disease symptom

**Part-B: Write short notes on any 6 of the following**

**6×6= 36**

15 Compare Endospore and Capsule Staining techniques

16 What are chemical disinfectants. Discuss the mode of action and application of any two disinfectants.

17 Microbial diversity and their distribution

18 Structure of bacterial flagella

19 List the general characters of Mycoplasma

20 Asexual reproduction in *Rhizopus*

21 Economic importance of fungi in industry and medicine

22 Etiology, symptoms and control of Red rot of sugarcane

**Part-C: Answer any 4 of the following in detail 10×4= 40**

23. Structure and multiplication of T2 bacteriophage

24. Discuss the structure of cell wall in Gram positive bacteria

25. Life cycle of *Puccinia graminis*

26. Methods of asexual reproduction in fungi

27. Discuss the instrumentation and working principle of SEM

28. Discuss the types of Lichens and their reproduction