QP CODE: 24019221

24019221

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE EXAMINATIONS, MAY 2024

Second Semester

Core Course - BO2CRT02 - MICROBIOLOGY, MYCOLOGY & PLANT PATHOLOGY

(Common for B.Sc Botany Model I, B.Sc Botany Model II Environmental Monitoring And Management, B.Sc Botany Model II Food Microbiology, B.Sc Botany Model II Horticulture and Nursery Management, B.Sc Botany Model II Plant Biotechnology, B.Sc Botany and Biotechnology Model III Double Main)

2017 ADMISSION ONWARDS

85398135

Time: 3 Hours Max. Marks : 60

.

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Give an example for Eukaryotic microbe.
2. Give an example for rod shaped bacteria.
3. What is a prion?
4. Who discovered Penicilin?
5. Name an actinomycete genus who can fix atmospheric molecular nitrogen.
6. Compare zygospore and zygophore.
7. Name the group of fungi known as ‘sac fungi’.
8. Define basidiocarp.
9. What is LSD?
10. Give an example for Basidiolichen.
11. What is disease forecasting?
12. Name the disease caused by Phytoplasma.

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Illustrate and explain Transduction in bacteria.
14. Explain the structure of T-4 Bacteriophage.
15. Distinguish between Streak plate and pour plate method of bacterial culture.
16. Define plasmodium.
17. Describe the asexual reproduction in Penicillium.
18. Describe the structure of Apothecium with a labelled diagram.
19. Differentiate endo-mycorrhiza and ect-omycorrhiza.
20. Briefly describe the symptoms and control measures of Abnormal leaf fall of Rubber.
21. Give an account on the preparation and use of Neem decoction.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Explain the following: a) Gram's Staining b)Binary fission.
23. Explain the different steps of parasexual cycle in Fungi.
24. How are plant diseases classified on the basis of causative organisms?
25. Describe in detail, the therapeutic techniques used in disease control.

(2×10=20)