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19101731

QP CODE: 19101731

Reg No : .....

Name : .....

**B.Sc. DEGREE (CBCS) EXAMINATION, MAY 2019**

**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 and Biotechnology Model III Double Main .B.Sc Botany Model II Plant Biotechnology)

2017 ADMISSION ONWARDS

4FC614CE

**Maximum Marks: 60**

**Time: 3 Hours**

**Part A**

Answer any **ten** questions.

Each question carries **1** mark.

1. Give an example for Prokaryotic microbe.
2. Define Plasmid?
3. What do you mean by binal symmetry in Viral architecture?
4. Who discovered Penicilin?
5. Which enzyme is involved in Nitrogen fixation in the root nodules of plants?
6. Name the white rust fungus.
7. Define ascocarp.
8. What is phragmobasidium?
9. What is VAM?
10. What are saxicoles?give an example.
11. What is necrosis?
12. Which disease in Coconut causes great economic loss?

(10×1=10)

**Part B**

Answer any **six** questions.

Each question carries **5** marks.

13. Differentiate between Transduction and Transformation in Bacteria.



14. Explain the structure of T-4 Bacteriophage.
15. Distinguish between Streak plate and pour plate method of bacterial culture.
16. . What are mastigonemes?
17. Define plasmodium.
18. Enumerate the major characteristics of Zygomycotina.
19. Give an account on fungal secondary metabolites
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 classification of Bacteria based on Flagellation and Morphology with suitable diagrams.
23. Explain the development of basidiocarp in Agaricus.
24. Explain the different stages of disease development.
25. Write an essay on the prophylactic measures adopted in the control of plant diseases.

(2×10=20)