

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)

Chromepet, Chennai - 600 044.

B.Sc.PBPBT - END SEMESTER EXAMINATIONS - APRIL 2025

SEMESTER - II

20UPBCT2003 - General Microbiology and Plant Pathology

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. Define the Structure and Life Cycle of Bacteriophage.
2. Define the different types of heterotrophs and explain why these heterotrophs depend on autotrophs.
3. Classify the factors triggers the formation of endospores.
4. Predict the nitrogen cycle affect soil fertility.
5. Mention the causal organisms and symptoms of Bacterial blight of Rice.
6. Distinguish the role of microorganisms in the Dairy Industry (Milk Processing).
7. Write 5 differences between aerobic and anaerobic.respiration.
8. Which crop is associated with a disease called red rot and revise to manage it in the Agriculture?

Section C

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Describe the different steps of lytic and lysogenic cycles of bacteriophages.
10. Briefly explain Ultra-Structure of Bacteria and its types.
11. Compare the process of fission, budding and spore formation in living organism.
12. Examine the role of microorganisms in the nitrogen cycle step by step process and its application in Agriculture.
13. Briefly describe the tobacco mosaic virus (TMV) affect plant growth and its treatment for successful development of plant.
