

Roll.No.

20UPBCT2003

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 - NOVEMBER 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. What are protists? Explain their general characteristics.
2. Differentiate between Gram-positive and Gram-negative bacterial cell walls.
3. Explain the steps involved in binary fission and its significance in bacterial multiplication.
4. Describe the role of bacteria in the nitrogen cycle.
5. . Explain the structure and nature of the tobacco mosaic virus.
6. Write short notes on:
a) Fungal toxins b) Antibiotics from fungi.
7. What is bacterial flagellation? Describe the structure of a bacterial flagellum.
8. Explain the role of bacteria in the fermentation of milk products.

Section C

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

9. Discuss the role of microorganisms in nature and industry, giving suitable examples.
10. Explain the process of respiration in bacteria - aerobic and anaerobic with suitable examples.
11. Bacterial reproduction & sexuality: Asexual Fission, Budding and Endospores. Sexual Transformation, Transduction and Conjugation.
12. Compare fungal, bacterial, and viral diseases of plants with examples.
13. Describe the role of bacteria in decomposition and nutrient recycling in nature.
