

**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.END SEMESTER EXAMINATION APRIL/NOV - 2021

SEMESTER - II

20UPBCT2003 - General Microbiology and Plant Pathology

Total Duration : 3 Hrs	Total Marks : 75
MCQ : 30 Mins	MCQ : 15
Descriptive : 2 Hrs.30 Mins	Descriptive : 60

Section B

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

1. Explain in detail about Protists and cyanobacteria.
2. Describe the general structure of viruses.
3. Explain the nutritional types in Bacteria.
4. Explain the respiration process in Bacteria.
5. Describe the Asexual reproduction in Bacteria.
6. Determine and discuss the role of Bacteriophage in soil fertility.
7. Determine the causal organism and *Citrus canker*.
8. Explain in detail the *Tobacco Mosaic Virus (TMV)*.

Section C

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

9. Compare and contrast the lytic and lysogenic cycle in T4 Bacteriophage with diagram.
10. Evaluate and discuss the Ultra structure of Bacteria and its Flagellation with neat diagram.
11. Determine and explain the role of Bacteria in molecular biology and it's role in the field of medicine.
12. Evaluate and explain the causal organisms and symptoms of the following diseases.
(a) Red rot of Sugarcane
(b) Tikka disease of Ground-nut.
13. Discuss the causal organism and symptoms of
(a) *Fusarium* wilt of cotton
(b)Bacterial Blight of rice