

**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.**

M.Sc. - END SEMESTER EXAMINATIONS APRIL - 2022

SEMESTER - I

16PPBCE1A01 - PLANT PATHOLOGY

Total Duration : 3 Hrs.

Total Marks : 60

Section A

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

1. Describe Koch's postulates.
2. Classify the diseases of crops plants in India enlisting the commonly practiced control measures of fungal diseases.
3. Explain the role of enzymes and toxins in disease development with examples.
4. Illustrate gene for gene concept with suitable diagrams.
5. Describe ELISA method of detection of pathogen in host tissues.
6. Write an account on the scope and significance of plant pathology.
7. Plant-parasite relationship – Discuss.
8. Explain the symptoms and disease cycle of Late blight of potato.

Section B

Part A

Answer any **TWO** questions ($2 \times 10 = 20$ Marks)

9. Explain the principles, inoculum potential, infection and dissemination of plant pathogens.
10. Write an essay on the host defence mechanisms.
11. Techniques in plant breeding for disease resistance – Discuss in detail.
12. Elaborate upon the direct and indirect methods of incorporation of resistant gene.

Part B

Compulsory question ($1 \times 10 = 10$ Marks)

13. Physical, chemical, integrated and biological plant disease control measures – Discuss.
