

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 NOVEMBER - 2022
SEMESTER - I

20PPBET1001 - Plant Pathology

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

Section A

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

1. Classify the plant diseases basis of main causal agent.
2. Elucidate the autonomous dissemination of pathogen.
3. Describe the symptoms and disease management of red rot of sugarcane.
4. Discuss the disease management of late blight of potato.
5. Explain the types of host defense mechanism.
6. Write about the plantibodies and special features.
7. Elaborate on the Avirulence (avr) genes.
8. Explain the RAPD analysis in detection of pathogens in host tissues.

Section B

Part A

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

9. Explain the Koch's Postulates theory.
10. Discuss the symptoms, causal organisms and disease cycle of bacterial leaf blight of rice.
11. Explain the disease resistance based on structural features.
12. Describe the molecular epidemiology and application in plant pathology.

Part B

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

13. Describe the genetically engineered disease resistant plants.
