

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. (PBPB) END SEMESTER EXAMINATIONS NOVEMBER - 2023

SEMESTER - I

**20PPBET1001 - Plant Pathology**

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

### **Section B**

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

1. Assess the Koch's Postulates.
2. What are the symptoms of Bacterial blight in rice?
3. Evaluate the disease management method in bacterial wilt of potato.
4. Explain the horizontal disease resistance method in plants.
5. Describe the plant-parasite relationship.
6. Ascertain the role of cutinase in disease development.
7. Apply the RAPD analysis in detection of pathogens for host tissues.
8. Write about the Avirulence (avr) genes.

### **Section C**

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

9. Infer the Scope and Significance of Plant Pathology.
10. Justify the role of tentoxin and cercosporin in disease development.
11. Enlist the various techniques in plant breeding for disease resistance.
12. Contrast the direct and indirect methods for resistant gene effect.

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

13. Explain the different physical and biological methods to control the plant diseases.

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