

CODE: **196402**  
NOVEMBER 2020

TIME: 3 Hrs  
MAX. MARKS: 50

*PART A*

(10 x 2=20)

Answer any **TEN** questions.

1. Rust
2. Inoculum
3. Wilt
4. Epidemic
5. Disease triangle
6. Blast of rice
7. Tikka disease
8. Seed certification
9. Crop rotation
10. Emasculation
11. Clones
12. PEG

*PART B*

(2 x 5=10)

Answer any **TWO** questions.

13. Brief the possible external defense structures of the host plant to prevent the pathogen.
14. What are phytoalexins? Brief its role in plant defense mechanism.
15. What are the methods involved in disease forecasting?
16. Write the casual organism, symptoms and control measures of citrus canker.
17. What is plant quarantine? Add a note on its significance in disease control?
18. Detail the Indian achievements of crop breeding in Rice.
19. What is protoplast fusion? How it helps in Plant breeding?
20. Brief about the disease – Tobacco Mosaic.

*PART C*

(2 x 10=20)

Answer any **TWO** questions.

21. Explain Different types of penetration of pathogen into the host plant.
22. Write an essay on steps involved in genetic engineering technique
23. What is damping – off disease? Write its causative organism, symptoms and control measures.
24. Brief the morphology and life cycle of nematode and its role in plant diseases. How can it be controlled?
25. Detail the steps involved in hybridization technique. Add note on its significance in plant breeding.