M.Sc. DEGREE EXAMINATION,NOVEMBER 2019
I Year I Semester
Plant Pathology

Time : 3 Hours **Max.marks :75**

Section A $(10 \times 2 = 20)$ Marks

Answer any **TEN** questions

1. Infection.
2. Pathogenesis.
3. Wilt of cotton.
4. Red rot of sugar cane.
5. Pathogen avoidance.
6. Phytoalexins.
7. HST
8. Heterokaryosis.
9. ELISA
10. R gene
11. Parasitism
12. Inoculum potential.

Section B $(5 \times 5 = 25)$ Marks

Answer any **FIVE** questions

13. Explain Koch's postulates.
14. List the important diseases of crop plants in India.
15. Write notes on the toxins produced by various pathogens in plants.
16. Explain parasexual recombination.
17. Briefly explain the methods used in indirect incorporation of resistant gene.
18. Expound the scope and significance of plant pathology.
19. Explain about pathogen, symptom and control of TMV.

Section C $(3 \times 10 = 30)$ Marks

Answer any **THREE** questions

20. Write a detailed account on the principles of plant infection and the methods of dis-semination.
21. Describe the various methods used in controlling plant diseases.
22. Write a detailed account on the host pathogen interaction and infection mechanism.
23. Describe the techniques in plant breeding for disease resistance.
24. Discuss in detail the methods used in detention of pathogens in host tissues.

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