M.Sc. DEGREE EXAMINATION,NOVEMBER 2018
I Year I Semester
Core Elective -I
PLANT PATHOLOGY

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

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

Answer any **TEN** questions

1. Symptom
2. Inoculum
3. Crop rotation
4. Cotton wilt
5. Parasitism
6. Defense
7. Mutant
8. Virulence
9. ELISA
10. Pathogen
11. Heterokaryosis
12. TMV

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

Answer any **FIVE** questions

13. Comment on scope and significance of plant pathology.
14. Explain the etiology and disease cycle of bacterial blight of Rice.
15. Explain the role of enzymes and toxins in disease development
16. Describe how mutation is used in disease resistance.
17. Explain how resistant gene is incorporated by different methods.
18. What is parasexual recombination?
19. Write about the symptoms and pathogen of Red rot of sugarcane.

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

Answer any **THREE** questions

20. Enumerate the principles of plant infection.
21. Explain the physical, chemical and integrated methods of plant disease control.
22. Write about Host - parasite relationship.
23. Explain briefly genetics of virulence and resistance.
24. Explain how pathogens are detected using PCR.

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