



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION - PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

FIFTH SEMESTER – NOVEMBER 2015

PB 5523 - PLANT DISEASES & MANAGEMENT

Date : 07/11/2015
Time : 09:00-12:00

Dept. No.

Max. : 100 Marks

PART – A

ANSWER THE FOLLOWING, EACH WITHIN 50 WORDS:

(10 x 2 = 20 marks)

1. What is Predisposition?
2. Write a brief note on disease-pyramid.
3. What are tyloses?
4. What do you mean by cross protection?
5. Name the causal organism of Ergot of Rye and Blast of Rice.
6. Define Galls.
7. Enumerate any two symptoms of Wilt of tomato.
8. Name any two viral diseases in plants.
9. Define prophylaxis.
10. Mention any two microbial antagonists.

PART – B (5 x 7 = 35 marks)

ANSWER THE FOLLOWING, EACH ANSWER WITHIN 500 WORDS; DRAW DIAGRAMS WHEREEVER NECESSARY

11. a. Write briefly about the dissemination of plant pathogens.
(or)
b. Explain the various steps in disease development.
12. a. Elucidate the impact of temperature and humidity in disease development.
(or)
b. Write short notes on: i) Phytoalexins ii) Hypersensitive reaction.
13. a. Explain the symptoms and control methods of Red rot of sugarcane.
(or)
b. Discuss briefly about Club root of cabbage.
14. a. Write a brief note on Little leaf of Brinjal.
(or)
b. Describe any one bacterial disease in plants and its control measures.
15. a. List the general principles of plant quarantine.
(or)
b. Discuss the importance of disease forecasting in plant disease management.

PART - C

(3 x 15 = 45 marks)

ANSWER ANY THREE OF THE FOLLOWING, EACH ANSWER NOT EXCEEDING 1200 WORDS. DRAW DIAGRAMS WHEREEVER NECESSARY:

16. Give an account of the different kinds of enzymes in plant disease development.
17. Elaborate on the innate defense mechanisms in plants.
18. Describe the causal organism, etiology and control measures of Root knot disease of Potato.
19. Write an essay on Tikka disease of groundnut.
20. Explain the methods used for eradication of plant diseases.

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