



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – PLANT BIOLOGY & PLANT BIO-TECH.

SIXTH SEMESTER – APRIL 2013

PB 6608/PB 6604 - PLANT DISEASES AND MANAGEMENT

Date: 25/04/2013
Time: 1:00 - 4:00

Dept. No.

Max. : 100 Marks

PART – A

ANSWER THE FOLLOWING, EACH WITHIN 50 WORDS ONLY: (10 x 2 = 20 marks)

01. Define Inoculum potential.
02. What is penetration?
03. What is hypersensitivity?
04. Define resistance.
05. Name the causal organism of downy mildew of grapes.
06. Give a brief note of symptoms of Blast of rice.
07. What is Mycoplasma?
08. Write notes on *Cuscuta*.
09. What is prophylaxis?
10. Define disinfectant.

PART – B

**ANSWER THE FOLLOWING, EACH WITHIN 500 WORDS.
DRAW DIAGRAMS WHEREVER NECESSARY: (5 x 7 = 35 marks)**

11. a) Discuss the role of enzymes on plant pathogenesis.
(OR)
b) Give a brief account of Koch's postulates.
12. a) Explain the role of temperature and humidity in disease development.
(OR)
b) Write notes on:
(i) Natural openings
(ii) Formation of abscission layer.
13. a) Describe briefly about the disease caused by *Cercospora personata*.
(OR)
b) Discuss the pathogen, symptom and control measure of Rust of Wheat.
14. a) Give a brief account of bacterial blight.
(OR)
b) Write notes on plant galls.
15. a) What is crop rotation? Explain.
(OR)
b) Discuss plant quarantine regulations.

PART – C

ANSWER ANY THREE OF THE FOLLOWING, EACH WITHIN 1200 WORDS.

DRAW DIAGRAMS WHEREVER NECESSARY:

(3 x 15 = 45 marks)

16. Give an account of anatomical and physiological changes caused in plants due to pathogenesis.
17. Write an essay on biochemical defence mechanism in plants.
18. Explain the pathogen, symptoms and control measures of Red rot of Sugarcane.
19. Discuss the disease cycle of Citrus canker.
20. Describe the chemical and biological control of plant diseases.

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