



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIFTH SEMESTER – APRIL 2016

PB 5523/6608/6604 – PLANT DISEASES & MANAGEMENT

Date: 05-05-2016

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

PART – A

(10 x 2 = 20)

Answer the following, each in about 50 words:

1. What is Inoculum potential?
2. Define scab and canker.
3. What is cross-protection?
4. Define Phytoalexins.
5. Name the causal organism of Ergot of Rye & Tikka of ground nut.
6. Describe any two symptom of Smut of Sorghum.
7. Name the pathogen of Bacterial blight and Tungro disease of Rice.
8. What are Galls?
9. Define Exclusion.
10. What is Disease Forecasting?

PART – B

(5 x 7 =35)

Answer the following, each answer not exceeding 500 words. Draw diagrams wherever necessary.

11. a. Explain Koch's postulates.

Or

- b. Explain the mechanism of infection.

12. a. Describe the structural defense in plants.

Or

- b. Explain the role of phenolic compounds in plant defense.

13. a. Name the pathogen and describe the symptoms and control measures of Red Root of Sugarcane.

Or

- b. Write an account on Club Root of Cabbage.

14. a. Describe the symptoms, causal organism and control of Citrus Canker.

Or

- b. Write an account on TMV and Little leaf of Brinjal.

15. a. Write short notes on :

- (1) Plant Quarantine.
- (2) Rogueing.

Or

- b. Explain Biological control.

Answer any **THREE** of the following, each answer not exceeding 1200 words.
Draw diagrams wherever necessary

16. Discuss the role of enzymes in pathogenesis.
17. Write an essay on the impact of environment on disease development.
18. Describe the causal organism, symptoms and control measures of Rust of Wheat.
19. Explain the causal organism, symptoms, life-cycle and control measures of Root Knot disease of Potato.
20. Write an essay on engineered resistance against pathogens.

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