LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIFTH SEMESTER – **NOVEMBER 2016**

PB 5523/6608/6604 – PLANT DISEASES & MANAGEMENT

Date: 05-11-2016 Dept. No. Max. : 100 Marks

Time: 09:00-12:00

PART – A (10 x 2 = 20 marks)

Answer the following, each within 50 words.

1. What is epidemiology?
2. Define inoculum potential.
3. What are phytoalexins.?
4. What is a lignified tissue?
5. What are the symptoms of damping off?
6. Write about ergot.
7. What are the symptoms of tungro disease.
8. Write the causal organism and symptom of little leaf of brinjal.
9. What is crop rotation?
10. What are biopesticides?

PART – B (5 x 7 = 35 marks)

Answer the following, each within 500 words. Draw diagrams and flow charts wherever necessary.

11.a. Write an account on methods of infection in plants.

[OR]

b. State Koch postulates. How it is used in identification of plant pathogens.

12. a. Explain the effects of temperature and humidity on disease development.

[OR]

b. What are the defense mechanism of plants in response to infection.

13.a. Write about the symptom and control measures of smut of sorghum.

[OR]

b. Write an account on tikka disease.

14.a. Describe the symptoms of root knot of potato and the control measures.

[OR]

b. Write a detailed account on citrus canker.

15.a. Give a detailed account on disease forecasting.

[OR]

b. Write an account on the biological control of plant pathogens.

PART – C (3 x 15 = 45 marks)

Answer any three of the following, each within 1200 words. Draw diagrams and flow charts wherever necessary.

16. Give a detailed account on host pathogen interaction during disease development.

17. Write about the biochemical barriers that resist pathogen entry.

18. Write about the causal organism, symptoms and control measures of rice blast.

19. Write an essay on insect galls, their identification and significance.

20. Summarise the cultural strategies and chemical methods to control disease development and spreading.

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