



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

SIXTH SEMESTER – APRIL 2023

16/17/18UPB6MC01 – PLANT DISEASES AND MANAGEMENT

Date: 29-04-2023

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

PART A

Answer the following, each within 50 words.

(10 x 2 = 20 marks)

1. Define symptoms.
2. What is an epidemic disease?
3. Comment on Koch's postulates.
4. Define immunity.
5. Mention the symptoms of disease caused by *Pythium*.
6. What is meant by wilt disease?
7. What are the symptoms of viral disease?
8. Write a note on mycoplasmal diseases.
9. What are organic fungicides?
10. Define plant quarantine.

PART B

Answer the following, each within 500 words.

Draw diagrams / flow charts wherever necessary.

(5 x 7 = 35 marks)

11. a. Explain in detail about the scopes and importance of plant pathology.
(or)
b. How are plant diseases classified? Mention the salient features.
12. a. Write notes on physiological and biochemical mechanisms of plant defence.
(or)
b. Give a brief account on PR proteins and phytoalexins.
13. a. Write notes on the pathogen, symptoms, and control of paddy blast.
(or)
b. Give an account on the pathogen, symptoms and control of ergot of rye.
14. a. Give details on the pathogen, symptoms and control of root knot disease.
(or)
b. Write notes on citrus canker and its control.
15. a. Write short notes on exclusion methods for disease management.
(or)
b. Explain the cultural methods in control of plant diseases.

PART C

Answer any three of the following, each within 1200 words.

Draw diagrams / flow charts wherever necessary.

(3 x 15 = 45 marks)

16. Discuss in detail about environmental factors that influence plant disease development.

17. Explain the various morphological and anatomical features that help in plant defence mechanisms.
18. Write detailed notes on the pathogen, symptoms, disease cycle and control of Tikka disease in groundnut.
19. Give an account on any two viral diseases in plants.
20. Discuss in detail about biological control of plant pathogens with suitable examples.

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