

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



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

FIFTH SEMESTER – APRIL 2022

16/17/18UPB6MC01/ UPB 5503 – PLANT DISEASES AND MANAGEMENT

Date: 17-06-2022

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. Give pathological reasons for Bengal famine.
2. Define systemic infection.
3. Mention the cause of epiphytotics.
4. Comment on hypersensitivity reactions in plants.
5. Write note on damping off disease.
6. What is meant by elephant toe disease?
7. Cite the angiosperm parasite and its systematic position.
8. List the uses of amylase.
9. Brief note on bio-flocculation.
10. Enumerate the types of biofuels.

PART – B

Answer the following, each within 500 words.

Draw diagrams / flow charts wherever necessary.

(5 x 7= 35 Marks)

11. a. Outline the classification of plant diseases. Mention the salient features.
(or)
b. Explain about the environmental factors that induce diseases in plants.
12. a. Describe the various morphological and anatomical features that prevent diseases.
(or)
b. Write short notes on the phytoalexins.
13. a. Elaborate on the pathogen, symptoms, and control of ergot of rye.
(or)
b. Briefly explain about the pathogen, symptoms and control of tikka in ground nut.
14. a. Mention the pathogen, symptoms and control of bunchy top of banana.
(or)
b. Give details on the disease caused by phytoplasma.
15. a. Narrate the principles followed in plant quarantine.
(or)
b. High light the agronomic practices followed to eradicate diseases in crops.

PART – C

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

Draw diagrams / flow charts wherever necessary.

(3 x 15= 45 Marks)

16. Explain in detail about host-pathogen interaction during pathogenesis.
17. Give a detailed account on the innate and induced biochemicals in disease resistance in crops.
18. Describe the pathogen, symptoms, disease cycle and control of red rust in wheat.
19. Write detailed notes on the types of galls produced in plants.
20. Explain in detail about the biological antagonists in crop protection.

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