



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

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

**FIFTH SEMESTER – NOVEMBER 2022**

**UPB 5503 – PLANT DISEASES AND MANAGEMENT**

Date: 28-11-2022

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

**PART – A**

Answer the following, each in about 50 words.

10 x 2 = 20 Marks

1. What is an epidemic?
2. Give any two examples for mechanical barriers of host.
3. Write a note virulence.
4. What is a phytoalexin?
5. Comment on damping off.
6. Describe the symptoms of wilt disease.
7. What is bunchy top of banana?
8. What is a plant parasite? Give an example.
9. Give the importance of crop rotation.
10. What is quarantine?

**PART – B**

Answer the following each in about 500 words. Draw diagrams and flowcharts wherever necessary.

5 x 7 = 35 Marks

11. (a) What is a physiological disease, how is it different from a pathological disease.  
[OR]  
(b) Summarize the morphological and anatomical changes in the host due to disease.
12. (a) Describe the factors responsible for disease incidence.  
[OR]  
(b) Differentiate cross protection and induced resistance.
13. (a) Describe the symptoms and control measures of smut disease.  
[OR]  
(b) Write an account on tikka disease.
14. (a) Explain the pathogen, symptoms, disease cycle and control of citrus canker.  
[OR]  
(b) Summarize the diseases caused by nematodes.
15. (a) Discuss the various types of chemical management of diseases.  
[OR]  
(b) Summarize the importance of disease forecasting,

PART – C

Answer any THREE of the following in about 1200 words. Draw diagrams and flowcharts wherever necessary. 3 X 15 = 45 Marks

16. Write an essay on the host pathogen interaction.
17. Discuss the anatomical and biochemical changes due to pathogenesis.
18. Write an essay on the causal organism, symptoms and control measures of Blast disease.
19. Explain the significance of galls and their types.
20. Describe the cultural and biological control of plant diseases.

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