LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034 B.Sc. DEGREE EXAMINATION – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY FIFTH SEMESTER – NOVEMBER 2023			
		UPB 5503 – PLANT DISEASES AND MANAGEMENT	
		Date: 07-11-2023 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. Distinguish between sign and symptom.			
2. Define necrosis.			
3. Define Endemic diseases.			
4. What are PR proteins?			
5. Mention any 2 symptoms of clubroot of cabbage.			
6. List two features of ergot of rye.			
7. What are galls?			
8. Mention the significance of BABU virus.			
9. Write the composition and importance of Bordeaux mixture.			
10. Mention any two antibiotics used to control plant diseases.			
PART B			
Answer the following, each within 500 words.			
Draw diagrams and flow charts wherever necessary.	(5 x 7= 35 marks)		
11. a. Explain about the classification of plant diseases.			
(or)			
b. Write notes on disease triangle and its importance.			
12. a. Write notes on the morphological and anatomical features involved in plant protection.			
(or)			
b. Explain the mechanisms of biochemical defence.			

13. a. Write notes on the pathogen, symptoms, and control of smut disease.

(or)

b. Explain about the pathogen, symptoms and control of Tikka disease in ground nut.

14. a. Describe the pathogen, symptoms and control of bacterial blight of paddy.

(or)

b. Explain about on the root knot disease.

15. a. Explain about the methods of eradication of diseases.

(or)

b. Write notes on inorganic fungicides.

## PART C

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

Draw diagrams and flow charts wherever necessary.

(3 x 15= 45 marks)

16. Write detailed notes on the steps in pathogenesis.

17. Explain in detail about the innate and induced phytochemicals in disease resistance.

18. Describe the pathogen, symptoms, disease cycle and control of rust disease in wheat.

19. Explain in detail about a) Tungro disease and b) Cuscuta

20. Write notes on the biological control of plant pathogens and crop protection

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