



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIFTH SEMESTER – NOVEMBER 2019

PB 5523 – PLANT DISEASES & MANAGEMENT

Date: 31-10-2019

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

Part A

Answer the following, each within 50 words.

(10 x 2 = 20 marks)

1. Write notes on Koch's postulates.
2. What is inoculum potential?
3. Define gummosis.
4. Comment on Tyloses.
5. Write a note on damping off.
6. Mention any two symptoms of little leaf of brinjal.
7. What is Citrus canker?
8. What are parasitic plants? Give an example.
9. What is plant quarantine?
10. Mention the composition and importance of Bordeaux mixture.

Part – B

Answer the following each within 500 words. Draw diagrams wherever necessary

(5x7=35 marks)

11. (a) Explain the environmental influence on plant pathogenesis.

Or

(b) Write briefly about the role enzymes in disease development.

12. (a) Explain the innate inhibitors found in crop plants.

Or

(b) Explain hypersensitivity and adoptive resistance found in plants.

13. (a) Elaborate on disease caused by *Ustilago*.

Or

(b) Describe the pathogen, symptoms and control of powdery mildew.

14. (a) Briefly describe the bacterial blight disease in paddy.

Or

(b) Write short notes on tungro disease in paddy.

15. (a) Give an account on physical methods to control crop diseases.

Or

(b) Write notes on biopesticides.

Part – C

Answer any three of the following, each within 1200 words. Draw diagrams wherever necessary
(3x15=45 marks)

16. Write an account on the morphological, anatomical and physiological responses in crop plants towards pathogenesis.
17. Explain the induced chemicals in plant defense mechanisms?
18. Mention the pathogen, symptoms, epidemiology and control of Tikka disease.
19. Describe the pathogen, symptoms, epidemiology and control of galls.
20. Write an essay on development of insect resistance in crop plant.
