

# LOYOLA COLLEGE (AUTONOMOUS) CHENNAI – 600 034

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

**FIFTH SEMESTER – NOVEMBER 2024**

**UPB 5503 – PLANT DISEASES AND MANAGEMENT**



Date: 14-11-2024

Dept. No.

Max. : 100 Marks

Time: 09:00 am-12:00 pm

## SECTION A

**Answer ANY FOUR of the following, each within 500 words.**

**Draw diagrams / flowcharts wherever necessary.**

**4 x 10 = 40 Marks**

1. Write notes on various agents associated with diseases in plants.
2. Discuss briefly about the disease triangle and its importance.
3. Explain the various biochemical barriers related to pathogenesis.
4. Explain the symptoms and disease cycle of smut of *Sorghum*. Add a note on its control.
5. Describe briefly about wilt disease and its control.
6. Write notes on the root knot disease of vegetables.
7. Discuss briefly about eradication of diseases.
8. Give an account on the cultural methods for plant disease control.

## SECTION B

**Answer ANY THREE of the following, each within 1000 words.**

**Draw diagrams / flowcharts wherever necessary.**

**3 x 20 = 60 Marks**

9. Discuss in detail about the various symptoms of plant diseases with suitable examples.
10. Write detailed notes on various environmental factors associated with plant diseases.
11. Explain in detail about innate and induced anatomical barriers due to disease resistance.
12. Describe the disease cycle of *Puccinia graminis*. Add a note on its control.
13. Explain in detail about a) citrus canker b) little leaf of brinjal
14. Discuss in detail about the therapeutic methods for disease control.

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