

Time : 2.30 Hrs.

Maximum Marks: 60

N. B.: (i) All questions are compulsory.

(ii) Figures to the right indicate full marks.

(iii) Draw neat and labelled diagrams wherever necessary.

- Q. 1 Describe various symptoms of fungal diseases in plants. **12**
- OR**
- Q. 1. Give the names of causal organisms, symptoms, disease cycle and control measures of **12**
- a. Coffee Rust
  - b. Papaya mosaic
- Q. 2 Give an account of any two methods detection of seed borne plant pathogens. **12**
- OR**
- Q.2 With respect to chemicals and antibiotics, explain the management of seed borne diseases in plants. **12**
- Q. 3 What are mycotoxins? Discuss the role of penicillic acid, patolin and ochratoxins. **12**
- OR**
- Q. 3 With respect to preservation of fungal cultures, describe: **12**
- a. Storage under mineral oil
  - b. Storage by drying
- Q. 4 Discuss in detail fungal bioconversions of lignocellulose. **12**
- OR**
- Q. 4 Enlist the potential bioproducts formed by the fungal degradation of lignocellulose. Add a note on their applications. **12**
- Q. 5 Write short notes on **any three-** **12**
- a. Club rot of cabbage
  - b. Brown spot of rice
  - c. Biological control agents
  - d. Alternaria toxins
  - e. Sub-culturing
  - f. Cellulase.

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