Late blight of potato.

Unit IV

- Discuss in brief the structural defense mechanisms in plants against infection.
- Describe the application of molecular biology in plant disease control strategies.

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M. Sc. EXAMINATION

(For Batch 2017 & Onwards)

(Second Semester)

BOTANY

BOT-204A

Principles of Plant Pathology

Time: Three Hours

Maximum Marks: 70

Note: Attempt Five questions in all. Q. No. 1 is compulsory. Attempt four more questions, selecting one question from each Unit.

(Compulsory Question)

Answer in brief:

2×5=10

(a) Downy mildews

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- (b) Viroids or Mycoplasmas
- (c) Pathogenesis
- (d) Hypersensitivity reaction
- (e) Epidemiology.

Unit I

- 2. Write notes on the following: $2 \times 7 \frac{1}{2} = 15$
- (a) Various levels of parasitism
- (b) How are the plant diseases classified?

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Name the person who introduced plant pathology in India with his major contributions.

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- 3. Write notes on the following : $2 \times 7\frac{1}{2} = 15$
- (a) Penetration mode/entry of plant pathogens through wounds
- (b) Permeability changes in diseased plants

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Unit II

4. What are viroids? How do they differ from viruses? What are the major symptoms of diseases caused by viruses in plants?

2+3+10=15

- . Write notes on any two of the following:
- (a) Pectolytic enzymes and their role in plant diseases
- (b) Lycomarasmin
- (c) How fungal plant pathogens are characterized? $2\times7\frac{1}{2}=15$

Unit III

- 6. Write brief notes on the following: $2 \times 7\frac{1}{2} = 15$
- (a) Red rot of sugarcanes
- (b) How downy and powdery mildews of grapes are caused? How are these diseases controlled?
- 7. Write brief notes on the following: $2 \times 7 \frac{1}{2} = 15$
- (a) Ergot of sye
- (b) Apple scale.

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