

NRT/KS/19/2841

Master of Science (M.Sc.) Fourth Semester (CBCS) (Botany) Examination

ELECTIVE—MYCOLOGY AND PLANT PATHOLOGY

Optional Paper—3

Paper—III

Time : Three Hours]

[Maximum Marks : 80

N.B. :— (1) **All** questions are compulsory and carry equal marks.

(2) Draw well labelled diagrams wherever necessary.

1. Write an essay on milestones in Indian Phytopathology.

OR

Write on :

- (a) Koch's Postulates.
- (b) Social impact of epidemic diseases.

2. What is biochemical plant defense ? Discuss the role of phenolic compounds and enzymes in plant defense.

OR

Write on :

- (a) Transgenic approach for plant disease control.
- (b) Classification of Plant diseases.

3. What are post harvest diseases ? Write on post-harvest diseases of fruits ?

OR

Write on :

- (a) Write on important diseases of Chilly with their control measures.
- (b) Diseases of Groundnut.

4. What are mycoplasma diseases ? Discuss any four mycoplasma diseases of plants. Add a note on their control measures.

OR

Write on :

- (a) Bacterial Soft rot of fruits
- (b) Viral diseases of Tomato and Potato.

5. Write short notes on :

- (a) Contribution of IARI in Plant Pathology
- (b) Biopesticides registered in India
- (c) Diseases of *Seasamum*
- (d) Angular leaf spot of Cotton.