

Roll No.

DD-776

M. Sc. (Fourth Semester) EXAMINATION, 2020

BOTANY

Paper Fourth

(Elective—Molecular Plant Pathology)

Time : Three Hours

Maximum Marks : 80

Note : Attempt all the *five* questions. Question No. **1** is compulsory. All questions carry equal marks.

1. Answer the following in brief :

- (a) Fumigants
- (b) Phytoalexins
- (c) Tundu disease
- (d) Write any *two* diseases due to mycoplasma.

Unit—I

2. What is epidemics ? Give a detailed account of factors responsible for the establishment of an epidemic.

Or

Write short notes on the following :

- (a) Breeding for disease resistance
- (b) Plant quarantine

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Unit—II

3. Describe Resistance and Susceptibility.

Or

Write short notes on the following :

- (a) Biochemical defence
- (b) Defence through hypersensitive reactions

Unit—III

4. Write an essay on Powdery mildew disease.

Or

Write short notes on the following :

- (a) Explain stages of rust disease on Barbery leaf.
- (b) Introduction and mechanism of wilt disease

Unit—IV

5. Write any *four* diseases due to viruses.

Or

Write short notes on the following :

- (a) General characters of Nematodes
- (b) Little leaf of Brinjal