

MJ-522

40963

M.Sc. Botany  
3rd Semester Examination, July-Dec., 2021  
Elective - I

Paper - IV

Molecular Plant Pathology - I

Time : Three Hours]

[Maximum Marks : 80

[Minimum Pass Marks : 16

Note : Answer from all the Units and Question No. 1 is compulsory. All questions carry equal marks.

1. Write short notes on the following :

(a) Parasitism ability ✓

(b) Inoculum potential ✓

(c) Epidemics ✓

(d) Preparation of culture tube ✓

( 2 )

**Unit-I**

2. Describe the general principle of plant pathology and classification.

**OR**

Write short notes on any two of the following :

- (a) Mycoplasma
- (b) Nematodes
- (c) Animate pathogen

**Unit-II**

3. Describe the general symptoms of plant disease.

**OR**

Write short notes on any two of the following :

- (a) Disease syndrome
- (b) Source of infection
- (c) Dissemination of plant pathogens

**Unit-III**

4. Write an essay on Rust.

**OR**

( 3 )

Write short notes on any **two** of the following :

- (a) Effect of environment on disease development
- (b) Smut
- (c) Germination of spores

**Unit-IV**

5. Explain the host-parasite relationship in plant.

**OR**

Write short notes on any **two** of the following :

- (a) Disease development
- (b) Koch postulates
- (c) Methods in Bacteriology