

PC- 520
(574) M.Sc. MICROBIOLOGY (FOURTH SEMESTER)
Semester Examination June-2020
Optional
Group –
Paper -I

Name/Title of Paper – Plant Pathology and Disease Management

Time : Three Hours]

[Maximum Marks : 80

[Minimum Passing Marks : 29

नोट : दोनों खण्डों से निर्देशानुसार उत्तर दीजिए। प्रश्नों के अंक उनके दाहिनी ओर अंकित हैं।

Note : Answer from both the section as directed. The figures in the right-hand margin indicate marks.

SECTION-A

1. Answer the following questions:

1×10 =10

- (a) Name the causative agent of powdery mildew of apple.
- (b) Name the organism causing wilting disease.
- (c) Give the composition of Bordeaux mixture.
- (d) Define phyllosphere.
- (e) Define rhizosphere.
- (f) Name one toxin responsible for plant disease.
- (g) What is rotting ?
- (h) What is chlorosis ?
- (i) Name two vectors, of viral disease in plants.
- (j) Who is known as the father of plant pathology.

2. Define the following :

2×5 =10

- (a) Symptomatology.
- (b) Gene for gene concept.
- (c) Blight disease.
- (d) Disease assessment.
- (e) Epidemiology .

SECTION-B

Answer the following questions :

15×4 = 60

3. Write an essay on eminent Indian plant pathologists.

OR

Describe in detail disease cycle.

4. Write an essay on gene for gene concept.

OR

Describe in detail role of enzymes and toxins in plant disease development.

5. Describe in detail, viral disease in plant.

OR

Describe in detail, the mycoplasmal disease in plant.

6. Describe in detail the principle of plant disease control ?

OR

Describe in detail the chemical control of plant diseases.