

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.