

PD-383-S.E.-CV-19
M.Sc. BOTANY (3rd Semester)
Examination, Dec.-2020
Paper-IV
PLANT PATHOLOGY-I

Time : Three Hours]

[Maximum Marks : 80

[Minimum Pass Marks : 29

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

Section-A

1. Answer the following objective type questions:-

1x10=10

- (a) What is an aggressive nature called in plant pathology?
- (b) Which of the following is edible fungi?
- (c) Who is the father of Indian plant pathology?
- (d) Soil micro-organism are most active at.....temperature.
- (e) Loose smut of wheat is.....borne disease.
- (f) Wilt disease of sugarcane was first time reported in India from.....
- (g) Which antibiotic was first time demonstrated by Fleming (1929).
(Penicillin, streptomycin, tetracycline)
- (h) Name any two plant pathologist.
- (i) Any two host specific toxin.
- (j) A dead area in the bark or cortex of the stem especially of woody plants is called.....(spot, canker, scorch, Dieback)

2. Answer the following questions in brief:-

2x5=10

- (a) What is plant pathology?
- (b) Define sporadic disease.
- (c) What is disease resistance?
- (d) Define parasitic disease.
- (e) What is pathogenicity?

Section-B

15x4=60

Attempt all questions.

UNIT-I

3. Describe nature and concept of disease in plant.

OR

Write short notes on the following:-

- (a) Importance of plant pathology (b) Development of plant pathology

UNIT-II

4. Write an essay on classification of plant disease.

OR

Write short notes on the following:-

- (a) Air borne disease (b) Non-parasitic disease

UNIT-III

5. Write about mode of infection.

OR

Write short notes on the following:-

- (a) General character of Fungi (b) Inoculum and Inoculum potential

UNIT-IV

6. Write in detail about the role of enzymes in pathogenesis.

OR

Write short notes on the following:-

- (a) How plants defend themselves against infections (b) Toxicity