

This question paper contains 2 printed pages]

NEPWT—215—2024

FACULTY OF SCIENCE

M.Sc. (Second Year) (Third Semester) EXAMINATION

NOVEMBER/DECEMBER, 2024

BOTANY

SBOTE-501

(Fundamentals of Plant Pathology)

(Tuesday, 17-12-2024)

Time : 2.00 p.m. to 5.00 p.m.

Time—3 Hours

Maximum Marks—60

- N.B. :-** (i) Question No. 1 is compulsory.
(ii) Of the remaining, attempt any *three* questions.
(iii) Draw neat and labelled diagram wherever required.

1. Write brief notes on the following : 15
- (a) Stages in disease development
- (b) Antagonistic association
- (c) Role of waxes and cuticle in defence mechanism.
- (d) Mercury fungicides

P.T.O.

2. Write brief notes on the following :
- (a) Non-parasitic diseases 8
 - (b) Seed and soil borne diseases. 7
3. Write brief notes on the following :
- (a) Effect of humidity and soil pH on pathogenesis. 8
 - (b) Entry of plant pathogens through wounds and hydathodes. 7
4. Write brief notes on the following :
- (a) Post-infectious biochemical defence through induced synthesis of proteins and enzymes. 8
 - (b) Structural defence in plants through epidermal cell wall and mechanical tissue. 7
5. Write brief notes on the following :
- (a) Eradication 8
 - (b) Inorganic sulphur fungicides and their mode of action. 7
6. Write brief notes on the following : 15
- (a) Diagnosis of plant diseases
 - (b) Direct penetration of plant pathogens
 - (c) Abscission layer
 - (d) Antibiotics in plant disease control.