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NY—187—2023

FACULTY OF SCIENCE AND TECHNOLOGY

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

NOVEMBER/DECEMBER, 2023

(New/CBCS Pattern)

BOTANY (PLANT PATHOLOGY–I)

Paper–XIII

(Principles of Plant Pathology)

(Saturday, 9-12-2023)

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

Time—3 Hours

Maximum Marks—75

N.B. :— (i) Attempt all questions.

(ii) All questions carry equal marks.

(iii) Draw well labelled diagrams wherever necessary.

1. Describe in detail major sources of survival of plant pathogens and add a note on dormancy. 15

Or

Write in detail about contributions of E.F. Smith and C.V. Subramanian.

2. Describe in detail entry of plant pathogens through natural openings. 15

Or

Write in detail effect of temperature and pH on disease development.

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3. Describe in detail methods for detection of aerospora. 15

Or

Give general account of plant disease forecast system with *one* example.

4. Describe in detail pre-existing structural defence in plants. 15

Or

Define Phytoalexins. Describe in detail synthesis and characteristics of Phytoalexins.

5. Write short notes on (any *three*): 15

(a) E.C. Stakman

(b) Rhizosphere

(c) Slow and rapid epidemics

(d) Inhibitors already present in Plant cells for defence.

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