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ST—333—2022

FACULTY OF SCIENCE

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

MAY/JUNE, 2022

(New/CBCS Pattern)

BOTANY

Paper XVIII

(Plat Pathology-II)

(Physiological and Molecular Plant Pathology)

(Monday, 4-7-2022)

Time : 2.00 p.m. to 5.45 p.m.

Time— 3.45 Hours

Maximum Marks—75

N.B. :— (i) Attempt All questions.

(ii) All questions are compulsory and carry equal marks.

(iii) Draw neat and well labelled diagrams wherever necessary.

1. How do plant pathogens affect Photosynthesis process in diseased plants. 15

Or

Give an account of the changes in the protein metabolism when plants become diseased.

2. Describe the mode of action and role of Pectolytic enzymes in pathogenesis. 15

Or

Give an account of Classification of Toxins.

3. Give an account of role of Biotechnology in Plant disease management. 15

Or

Describe the types of Plant resistance.

P.T.O.

- 4. Describe any *two* methods for identification of pathogens by molecular techniques. 15

Or

Write down the properties of a good cloning vectors.

- 5. Write short notes on any *three* : 15
 - (a) Auxins;
 - (b) Proteolytic enzymes;
 - (c) Genetic variability in bacteria;
 - (d) RAPD Markers.