This question paper contains 2 printed pages]

## WT-231-2024

## FACULTY OF SCIENCE AND TECHNOLOGY

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

## **NOVEMBER/DECEMBER, 2024**

(CBCS/New Pattern)

**BOTANY** 

Paper XVIII

(Plant Pathology-III)

(Physiological and Molecular Plant Pathology)

(Monday, 16-12-2024)

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 neat and well labelled diagrams wherever necessary.
- 1. Describe in detail effect of infection on photosynthesis.

15

Or

Describe in detail effect of pathogens on transcription and translation.

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2.	Describe in detail types, mode of action and role of pectolytic enzymes	in
	pathogenesis.	15
	Or Control of the Con	
	Describe in detail chemical nature and mode of action of Victorin a	ınd
	Lycomarasmin.	
3.	Give an account of genetic variability in bacteria and fungi.	15
	or A	
	Describe in detail development of disease free plant by meristem	tip
	culture.	
4.	Give an account of properties of good cloning vectors. Add a note	on
	Ti-plasmids.	15
	Or Or	
	Describe in detail properties of molecular markers. Add a note on RAP	D.
5.	Write short notes on (any three):	15
	(a) Effect of pathogens on permeability of cell membrane	
	(b) Lipolytic enzymes in pathogenesis	
	(c) Gene for Gene relationship	
	(d) Southern hybridization.	
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