

(For those admitted in June 2025 and later)

PROGRAMME AND BRANCH: M.Sc., BOTANY

Date & Session : 07.11.2025/FN **Time : 3 hours** **Maximum: 75 Marks**

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Course Outcome	Bloom's K-level	Q. No.	SECTION – B (5 X 5 = 25 Marks) Answer <u>ALL</u> Questions choosing either (a) or (b)
CO1	K2	11a.	Sketch out the general characteristics of bacteria. (OR)
CO1	K2	11b.	Write a short note on the cultivation of bacteria.
CO2	K2	12a.	Outline the structure of virus with illustration. (OR)
CO2	K2	12b.	Explain the cultivation of viruses in embryonated eggs.
CO3	K3	13a.	How microbes spoil the dairy products? (OR)
CO3	K3	13b.	Determine the factors affecting microbial community in soil.
CO4	K3	14a.	Categorize the types of immunity in our body system. (OR)
CO4	K3	14b.	Articulate about ELISA.
CO5	K4	15a.	Infer about the principles of plant infection. (OR)
CO5	K4	15b.	Deduce about the disease late blight of potato.

Course Outcome	Bloom's K-level	Q. No	SECTION – C (5 X 8 = 40 Marks) Answer <u>ALL</u> Questions choosing either (a) or (b)
CO1	K4	16a.	Enumerate the methods of bacterial growth. (OR)
CO1	K4	16b.	Give an account on the genetic recombination of bacteria.
CO2	K5	17a.	Analyze the classification and replication of bacteriophages. (OR)
CO2	K5	17b.	Discuss the phycoviruses and micoviruses.
CO3	K5	18a.	Defend the beneficial role of microbes in various food products. (OR)
CO3	K5	18b.	Assess the different types of techniques used to preserve the food.
CO4	K5	19a.	Evaluate the properties and types of antigen. (OR)
CO4	K5	19b.	Comment about the various types of Antigen – Antibody interactions.
CO5	K6	20a.	Predict the abiotic causes of plant diseases. (OR)
CO5	K6	20b.	Compose the mechanism of penetration of pathogens in plants.