

ALL questions carry EQUAL Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Describe the methods of pure culture.	K3	CO1
	(OR)			
	11.b.	Determine the environmental factors affecting microbial growth.		
2	12.a.	Discover the role of MALDI-TOF in microbial taxonomy.	K3	CO2
	(OR)			
	12.b.	Describe the significance of studying unculturable organisms using metagenomics.		
3	13.a.	Explore the antibacterial, antifungal and antiviral agents with examples.	K4	CO3
	(OR)			
	13.b.	Examine the mode of action of tetracycline.		
4	14.a.	Figure out the types of food spoilage with examples.	K4	CO4
	(OR)			
	14.b.	Enumerate on the role of PGPR in crop improvement.		
5	15.a.	Identify the causative agent and symptoms of Tuberculosis.	K4	CO5
	(OR)			
	15.b.	Comment on fungal infections caused by <i>Candida</i> .		

SECTION -C (30 Marks)

Answer **ANY THREE** questions

ALL questions carry EQUAL Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Analyze the growth curve of bacteria with a neat diagram.	K4	CO2
2	17	Interpret the applications of Next Generation Sequencing (NGS) in microbial community analysis.	K5	CO2
3	18	Evaluate the different modes of action of antibacterial agents with suitable examples.	K5	CO3
4	19	Appraise the microbial role in nitrogen cycle and its importance in agriculture.	K5	CO4
5	20	Summarize a comparative framework for the diagnosis, treatment and prevention strategies of bacterial diseases.	K5	CO5

Z-Z-Z END