



<b>Q. No.</b>	<b>SECTION C</b> <b>ANSWER ANY TWO QUESTIONS. (2 x 10 = 20 marks)</b>	<b>CO</b>	<b>KL</b>
21.	a. Explain the different phases of the bacterial growth curve with illustrations. (5 marks) b. Add a brief note on the various methods used to measure microbial growth. (5 marks)	CO3	K3
22.	What is differential staining? Explain with a suitable example.	CO3	K3
23.	Briefly describe the different types of spoilage caused by microbes in cosmetics and natural fabrics.	CO3	K3
<b>Q. No.</b>	<b>SECTION D</b> <b>ANSWER ANY TWO QUESTIONS. (2 x 15 = 30 marks)</b>	<b>CO</b>	<b>KL</b>
24.	Classify bacteria based on the temperature, oxygen and pH requirements for growth with suitable examples.	CO4	K4
25.	Describe the structure and reproduction of T4 bacteriophage.	CO4	K4
26.	Examine the causative agents, epidemiology, symptoms, pathogenicity and control measures for Dengue fever.	CO4	K4
<b>Q. No.</b>	<b>SECTION E</b> <b>ANSWER ANY TWO QUESTIONS. (2 x 5 = 10 marks)</b>	<b>CO</b>	<b>KL</b>
27.	Assess the role of indicator organisms citing suitable examples.	CO5	K5
28.	'MacConkey is a selective and differential medium'. Justify giving reasons.	CO5	K5
29.	Discuss the role of sulphonamides in inhibiting bacterial growth.	CO5	K5

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