## School of Biological and Life sciences Department of Biological and Life Sciences Mid Term Examination

Exam Date: 29 Sep 2023 Time: 90 Minutes

Marks: 50

## **Sem III - MSMB6005 - Food and Agricultural Microbiology** *Your answer should be specific to the question asked*

Draw neat labeled diagrams wherever necessary

1)	Illustrate the principle and utility of Methylene Blue Reduction Test in detection of milk quality.	K2 (2)
2)	Show the usage of drying in food preservation.	K1 (3)
3)	Identify the significance of 12-D concept and water activity (aw).	K2 (4)
4)	How are chemicals utilized in food preservation? Discuss any two major groups of chemicals utilized for food preservation.	K2 (6)
5)	Outline the key mechanism of food preservation by low temperature and the various methods employed.	K3 (6)
6)	Identify the key methods of preservation of food and mechanism of pathogen killing.	K3 (9)
7)	Analyze in detail the principle of preservation by pasteurization and its types.	K4 (8)
8)	Examine the role of microbes in production of: a) Cultured butter milk b) Blue cheese c) Acidophilus milk	K4 (12)
OR		
	Assess the contrasting features of: a) Hard cheese and soft cheese b) Camembert cheese and blue cheese	K4 (12)