

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

School of Biological and Life sciences**Master of Science in Biochemistry
Semester End Examination - Nov 2023****Duration : 180 Minutes
Max Marks : 100****Sem III - MSDB6022 - Industrial Biochemistry**General Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) Define bioprocess with the help of proper example. K1 (2)
- 2) Explain Maillard reaction. K2 (4)
- 3) Identify the difference between probiotic, prebiotic and synbiotic. K2 (6)
- 4) Illustrate the manufacturing process of alcohol production. K3 (9)
- 5) Differentiate between food born infection and intoxication. K3 (9)
- 6) Discuss the carbon and nitrogen source of media and explain the role of trace elements and antifoaming agents in the media with example. K5 (10)
- 7) Write note on:(1)What do you mean by Agmark grading and Agmark standards?(2)quality control and quality assurance? K4 (12)
- 8) Describe the major factors for food spoilage. K5 (15)
- 9) Differentiate between fed batch and continuous fermentation with proper example. K5 (15)
- 10) Explain the drug development and its process, what are the criteria involved in early release of any drug. K6 (18)