

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

**School of Biological and Life sciences**

Master of Science in Microbiology  
Semester End Examination - Nov 2023

Duration : 180 Minutes  
Max Marks : 100

**Sem III - MSMB6005 - Food and Agricultural Microbiology**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) What is microbial food poisoning? Give example. K1 (2)
- 2) Define D-value and explain its significance in food preservation. K2 (4)
- 3) Assess the role of radiations in food preservation? Discuss the different types of radiations utilized for food preservation. K2 (6)
- 4) Demonstrate the significance of bacterial endotoxins and exotoxins with suitable example. K3 (9)
- 5) Demonstrate the significance of bacterial toxins with suitable example. K3 (9)
- 6) Identify with examples, the features, advantages and disadvantages of microbes used as food source. K5 (10)
- 7) Examine in details the types and applications of Biofertilizers. K4 (12)
- 8) Interpret the role of microorganisms in milk spoilage and briefly discuss the various methods employed in detection of microbes in milk. K5 (15)
- 9) Interpret briefly the role of microorganisms in milk spoilage and discuss the various conventional and rapid methods employed in detection of microbes in milk. K5 (15)
- 10) Construct the lifecycle of pathogen and disease control methods of the causative agent of rusts of wheat or late blight of potato K6 (18)