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## **BSCMBC 381**

## Choice Based Credit System VI Semester B.Sc. Degree Examination, September 2022 (2021 – 22 Batch Onwards) MICROBIOLOGY Food and Industrial Microbiology

Time: 3 Hours Max. Marks: 80

**Note**: 1) Answer both Part – **A** and Part – **B**.

2) Draw diagrams wherever necessary.

PART – A

1. Answer any ten of the following.

 $(10 \times 2 = 20)$ 

- a) Aspergillus species.
- b) Food additives.
- c) SPC.
- d) Stormy fermentation.
- e) Antifoam agents.
- f) Screening.
- g) Impeller.
- h) Amylase.
- i) Buttermilk.
- j) Methanogens.
- k) Canning.
- I) GMP.



## PART – B

Answer any four questions choosing one full question from each Unit.

## Unit – I

2.	,	Write a note on 'Food as substrate for microbes'.  Explain the various factors influencing the microbial growth in food.  OR	5 10					
3.	•	Give a general account of HACCP.	5					
	b)	Define food spoilage. Write in detail the physical methods of food preservation.	10					
	Unit – II							
4.	a)	Write a note on the microflora of raw milk.	5					
	b)	What are the methods of milk examination ? Write briefly on the reductase tests of milk. $ \\$	10					
		OR						
5.	a)	Write briefly on the biochemical activities of microbes in the milk.	5					
	b)	Explain the industrial production of cheese in detail.	10					
		Unit – III						
6.	a)	Write briefly on the sterilization of fermenter.	5					
	b)	Explain the methods of 'Strain Improvement' of industrially important microbes.	10					
		OR						
7.	a)	Write a note on the media used in industrial fermentations.	5					
	b)	What is a fermenter? Draw a well labelled diagram of a typical fermenter. Explain.	10					
Unit – IV								
8.	a)	Explain the industrial production of Gibberellins.	5					
	b)	Explain in detail the industrial production of Penicillin.  OR	10					
9.	a)	What are the types of wines? Draw the flow chart of wine production.	5					
	b)	Explain in detail the industrial production of proteases.	10					

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