D 41457-A Name..... Reg. No..... FIRST SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2008 Microbiology (Main) MBI 2T—GENERAL MICROBIOLOGY (2005 Admissions) Maximum: 80 Marks Time: Three Hours Answer all questions each in 2 or 3 sentences in section A. Discuss any 5 in section B. Section A 1. Chemostat. 2. Cardinal Temperatures. 3. Deep freezing. 4. Spore coat. 5. Continuous cell culture. 6. Metachromatic granules. 7. Cold sterilization. 8. Peptidoglycan. 9. Turbidostat. 10. Antisepsis. 11. Incineration. 12. Chemolithotrophs. 13. Enrichment media. 14. Mutagens. 15. Ethylene oxide. 16. Numerical classification. 17. Corn meal agar. 18. Facultative anaerobes. 19. McIntosch Fildes Jar. 20. Streak culture. $(20 \times 2 = 40 \text{ marks})$ Section B (Discuss any five)

1. Membrane transport systems.

- 2. Classification of Bacteria.
- 3. Mode of action of any three antibiotics.
- 4. Anaerobic culture methods.
- 5. Evaluation of Disinfectants.
- 6. Structure of Bacterial cell wall.
- 7. Nutritional requirements of Bacteria.

 $(5 \times 8 = 40 \text{ marks})$

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SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2010		
Microbiology		
MB 2.3 T—INDUSTRIAL MICROBIOLOGY		
(2005 Admissions)		
		Maximum: 80 Marks
Time:	: Three Hours	
Section A		
Write about/answer all the questions, each in two or three sentences.		
1.	Air lift fermenters.	
2.		
3.		
4.		
5.		
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16.	-	
17.	-	
18.		
19.	Fungal amylases.	
20.). Malting.	(20 0 40 1)
	9 41 B	$(20 \times 2 = 40 \text{ marks})$
Section B		
Write note on/discuss any five of the following.		
1.		
2.		
3.	Production of ethanol.	

 $(5 \times 8 = 40 \text{ marks})$

4. Aseptic fermenters.

6. **SCP** production.

5. Continuous fermentation.

7. Citric acid production.