D 28056		Name
		Reg. No
FIRST SEMESTER M.Sc. DEGREE EXAMINATION, JANUARY 2007		
Microbiology		
M.B.1.2 T—GENERAL MICROBIOLOGY		
(2005 admissions)		
,		Maximum: 80 Marks
Time !	Three Hours Section A	1/11/11/11/11 1 0 0 1/11/11
Write about I answer all the questions, each in two or three sentences.		
1.	Stationary phase of bacterial growth.	
2.	Mc Intosh Filde's jar.	
3.	Hyperthermophiles.	
4.	Differential media.	
5.	Brown's opacity tubes.	
6.	Cryopreservation of bacterial cultures.	
7.	Auxotrophs.	
8.	Halophilic bacteria.	
9.	Primary cell cultures.	
10.	Pock counting.	
11.	Fimbriae.	
12.	Porins.	
13.	Peptidoglycan.	
14.	Mesosomes.	
15.	Volutin granules.	
16.	Bacterial chromosome.	
17.	Transposons.	
18.	Plasmids.	
19.	Bacterial spore.	
20.	Locomotion in bacteria.	$(20 \times 2 = 40 \text{ marks})$
	Section B	(20 x 2 = 10 marns)
Write note on discuss any five of the following.		
1.	Autoclaving.	
2.	Testing of disinfectants.	
3.	Antiseptics.	
4.	1	
5.	Replica plating.	
6.	Numerical taxonomy.	
7.	Ribotyping.	40 1)

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

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FIRST SEMESTER M.Sc. DEGREE EXAMINATION, JANUARY 2007

Microbiology

MBI-3T—ENVIRONMENTAL AND SANITATION MICROBIOLOGY

(2005 admissions)

Time: Three Hours

Maximum: 80 Marks

Section A

Write about answer all the questions each in 2 or 3 sentence&

Commensalism.
 Ris ratio.
 Cellulose degradation.
 Mycorrhiza.

5. Leghaemoglobin.6. Nitrification.7. Associate8. Air sanitation.

7. Aerosols.8. Air sanitation.9. Biological weapons.10. Greenhouse effect.

11. Indicator organisms. 12. Eutrophication.

13. MPN tests. 14. EMB agas. 15. Biogeographics 16. BOD.

15. Biosensors.16. BOD.17. Xenobiotics.18. Marine fauling.

19. Oil pollution. 20. Biodegradation.

 $(20 \times 2 = 40 \text{ marks})$

Section B

Write notes on / discuss any **five** of the following. Each question carries 8 marks.

- 1. Factors affecting soil microbial populations.
- 2 Mechanisms of nitrogen fixation.
- 3. Enumeration of bacteria in air.
- 4. Sources of air pollution.
- 5. Bacteriological analysis of water.
- 6. Methods of sewage treatment.
- 7. Biodegradation of petroleum wastes.

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