D 52018	Name	
	Reg. No	

FIRST SEMESTER M.Sc. DEGREE EXAMINATION JANUARY 2009

Microbiology (Main)

MBI.2T - GENERAL MICROBIOLOGY

(2005 admissions)

Time: Three Hours

Maximum: 80 Marks

Section A

Answer **all** questions in 2 or 3 sentences.

Answer all questions in 2 or 3 semences.								
1.	Oligodynamic action.	2.	Flagella.					
3.	Selective media.	4.	Rideal-Walker test.					
5.	Seitz- filter.	6.	Photoheterotrophs.					
7.	Stab culture.	8.	Pili.					
9.	Acessory growth factors.	10.	Microaerophiles.					
11.	Penicillin.	12.	Active transport.					
13.	Endospore.	14.	Plasmids.					
15.	Point mutation.	16.	Volutin granules.					
17.	Anaerobic jar.	18.	Iodophores.					
19.	Binary fission.	20.	Lyophilisation.					

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

Section B

Discuss any **five** of the following.

- 1. Chemical agents used for microbial control.
- 2. Preservation of cultures.
- 3. Types of mutations.
- 4. Cultivation of viruses.
- 5. Sporulation in Bacteria.
- 6. Factors affecting microbial growth.
- 7. Molecular methods used in Microbial taxonomy.

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

D 52019	Name	
	Reg. N©	

FIRST SEMESTER M.Sc. DEGREE EXAMINATION JANUARY 2009

Microbiology

MB L3T - ENVIRONMENTAL AND SANITATION MICROBIOLOGY

(2005 admissions)

Time: Three Hours

Maximum: 80 Marks

Section A

Write about I answer all the questions in 2 or 3 sentences.

while about I answer all the questions in 2010 octavities.								
1.	Competitive exclusion principle.	2.	${\bf Cometabolism.}$					
3.	VAM.	4.	Rhizosphere.					
5.	Biological weapons.	6.	Air Ozonisation.					
7.	Air sanitation in metro tunnels.	8.	Sulphate reduction.					
9.	Biosensors.	10.	BOD.					
11.	Faecal streptococci.	12.	Xenobiotics.					
13.	Microbial biofilm formation.	14.	Vermicomposting.					
15.	Tarball pollution.	16.	Imhoff Tank.					
17.	Rapid sand filter.	18.	Oxidation pond.					
19.	Greenhouse gases.	20.	Aeroallergens.					
				(00	101			

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

Section B

Write notes on / discuss any five of the following.

- 1. Factors affecting the type and extent of air microflora.
- 2. Biodegradation of petroleum wastes.
- 3. Discuss different methods of treatment of industrial effluents.
- 4. Illustrate the membrane filter technique for air sampling.
- 5. Enumerate the factors affecting composting.
- 6. Phosphorus cycle.
- 7. Quantitation techniques for water microflora.

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