C 28079	Name
	Reg. No

# SECOND SEMESTER M.Sc. DEGREE EXAMINATION, AUGUST 2003

### Microbiology

### Paper V\_SANITATION MICROBIOLOGY

Time: Three Hours Maximum: 80 Marks

# I. Answer all the following questions:

- 1 Define thermal death time.
- 2 What is the mode of action of dry heat?
- 3 What is tyndallization?
- 4 What is meant by plasmolysis?
- 5 What are ionising radiations?
- 6 Name two bacteriological filters?
- 7 Differentiate between bactericidal and bacteriostatic agents.
- 8 Name two chloramines.
- 9 Name the test used for evaluation of a disinfectant.
- 10 What are siderophores?
- 11 Name the sources of microbes in air.
- 12 Name two methods for enumeration of air microflora.
- 13 Define coliforms.
- 14 What is eutrophication?
- 15 What is an activated sludge?
- 16 Name two iron bacteria.
- 17 Name the factors affecting growth and survival of microbes in food.
- 18 Define water activity.
- 19 Differentiate between psychrophiles and psychrotrophs.
- 20 Name two thermophilic organisms associated with spoilage of canned foods.

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

### II. Write a note on any five of the following:

- 1 Effect of radiation on microbes.
- 2 Factors affecting the distribution of air microflora.
- 3 Water purification.
- 4 Detection of faecal pollution.
- 5 Spoilage of meat.
- 6 Food-borne infections.
- 7 Microbial war fare.

x 8 = 40 marks

C 2807			Name
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			(MICROBIOLOGY) DEGREE I, AUGUST 2003
		Micro	biology
	Paper	· IV—II	MMUNOLOGY
Γime : Thr	ee Hours		Maximum: 80 Marks
I. An	swer <i>all</i> questions. Write very br	iefly on	:
1	Anti lymphocyte serum.	2	Super antigens.
3	Epitopes.	4	IgD.
5	HAT medium.	6	Guillain-Barre syndrome.
7	Combined immunisation.	8	SLE.
9	Cutaneous anaphylaxis.	10	Rose Waaler test.
11	Capture ELISA.	12	SRS-A
13	Transfer factor.	14	Lazy leucocyte syndrome
15	Bombay blood group.	16	Rh factor.
17	Natural Killer Cells.	18	ADCC.
19	Direct immunofluorescence.	20	Prozone phenomenon.
			$(20 \times 2 = 40 \text{ marks})$
	wer any <i>five</i> questions. Write no	tes on :	
1	Adjuvants.		
2	Immunodiffusion in gel.		
3	ELISA.		
4	T cell differentiation.		
5	HLA.		
6	Anaphylaxis.		
7	Immunosuppressive agents.		

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