R.NO 18

(i) Printed Pages: 3] Roll No.

(ii) Questions : 9] Sub. Code: 0 3 7 7

Exam. Code : 0 0 0 4

B.A./B.Sc. (General) 4th Semester Examination

1047

INDUSTRIAL MICROBIOLOGY (Microbial Technology)

(Elective)

Paper: IMB 402

Time: 3 Hours] [Max. Marks: 33

Note: Attempt five questions in all, including Q. No. 1 (Section-A) which is compulsory and attempt one question from each Section B-E.

Section-A

- 1. Answer the following:
 - (a) What are haptens?
 - (b) What do you mean by lymphocyte traffic?
 - (c) Role of colony stimulating factors.

N - 552

(1)

Turn Over

	(d)	Define the HLA.		
	(e)	Functions of vaccines.		
	(f)	Enlist various factors affecting antibody		
		production. 1.5×	6=9	
Section-B				
2.	Desc	cribe the functions of various cells of immune		
	syste	em.		
3.	Give	e an account on MALT and CALT.	6,6	
Section-C				
4.	Expl	Explain the structure of antigenic combining regions		
	of a	intibodies.		
5.	Write	e a note on antibody diversity.	6,6	
		Section-D		
6.	(a)	What are interferons ?		
	(b)	Briefly describe the mechanism of classical		
		complement pathway.	2,4	
7.	Write	rite short notes on the following:		
	(a)	Applications of monoclonal antibodies.		
	(b)	Functions of accessory cells.	3,3	
N-	-55	2 (2)		

Section-E

(Compulsory Question)

- 8. What is the procedure, advantages and disadvantages of Widal test.
- 9. (a) Discuss the principle and use of western blotting.
 - (b) Discuss the principle of Weil-Felix reaction. 3,3