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# B.Sc. (Part-II) Semester-IV Examination

## 48 : MICROBIOLOGY

## (Medical Microbiology)

Time	: T	hree l	Hour	rs]		[Maximum]	Marks: 80
Note :(1)				All questions are compulsory.			
			(2)	Draw well labelled diagrams who	rever ne	ecessary.	
1.	(a)	Fill					
		(i)	Ant	tibody molecule is made up of four		_ chains.	
		(ii)	_	is a death of tissue by absorp	tion of t	oxins.	
		(iii)	Vir	us replication in cell is inhibited by	a prote	in called	
		(iv)	Stre	eptomycin is useful asspe	ctrum a	ntibiotic.	2
	(b)	b) Choose the correct alternative :					
		(i)	Cho	olera is a borne disease.			
			(a)	Vector	(b)	Soil	
			(c)	Water	(d)	Air	
		(ii)	Coo	omb's test is an example of:			
			(a)	Precipitation	(b)	CFT	
			(c)	Agglutination	(d)	None of the above	
	(iii) Immunity acquired by foetus from mother is called as:					alled as :	
			(a)	Racial	(b)	Species	
			(c)	Herd	(d)	Transplacental	
		(iv)	Ger	netic material in HIV is:			
			(a)	S.S.RNA	(b)	D.S.RNA	
			(c)	S.S.DNA	(d)	D.S.DNA	2
	(c)	Answer in one sentence each :					
		(i)	Def	fine focal infection.			
		(ii)	Giv	e the long form of ELISA.			
		(iii)	Giv	e the long form of CLSI.			
		(iv)	Def	fine haemolysins.			4
2.	<ul> <li>(a) Describe vector transmission with suitable example.</li> </ul>						4
	(b)						4
	(c)	Differentiate between pathogenicity and virulence.  OR					4
				OK			
100	100						10 .15

## FirstRanker.com d Fir 3 & santheevels icle o ions mission with suitable example. www.FirstRanker.com (e) Differentiate between exotoxin and endotoxin. www.FirstRanker Describe normal flora of upper respiratory tract. 3. (a) Explain delayed type of hypersensitivity. (b) Explain active immunity. (c) Enlist cells and organs of immune system. OR (d) Explain type II-hypersensitivity. (e) Explain general non-specific factors. (f) Differentiate between T-Lymphocytes and B-Lymphocytes. (a) Describe in brief structure of lgM. (b) Complement fixation test. (c) Write the properties of antigen. OR (d) Describe in brief structure of lgG. 4 (e) Explain in brief agglutination reaction. 4 (f) Explain monoclonal antibodies. 4 Describe morphology, cultural characteristics, pathogenicity and laboratory diagnosis of staphylococcus aureus. OR Describe morphology, cultural characteristics, pathogenicity and laboratory diagnosis of salmonella 12 12 Describe the structure, transmission, pathogenesis and preventive measures of HIV virus. 6. What do you mean by hydrophobia? Describe in detail morphology, transmission and symptoms in man and laboratory diagnosis of Rabies virus. 12 (a) Explain inhibition of cell wall synthesis. 4 (b) Explain Kirby-Bauer Method. 4 (c) Draw well labelled diagram of different mechanisms of antibiotic action. 4 (d) Describe mode of action of Griscofulvin. 4 (e) Explain inhibition of protein synthesis.

(f) Explain broth microdilution test.