Seat] Sat
No.	Set

B.Sc.(Semester-III) (CBCS) Examination Oct/Nov-2019

		D.00.(00111001	Biotechn		V	
		FUN	DAMENTALS O	_		
•		: Saturday, 12-10) PM To 05:30 PM			Max. Marks: 7	0
Instr	uction	2) Figures to tl	s are compulsory. ne right indicate full beled diagrams mu		s. drawn wherever necessary.	
Q.1	Fill in 1)	In the adult norn	nal blood-cell count	has s	tives given below. hows RBCs. 5.0 X 10 ⁶ cells/mm ³ 4.5 X 10 ⁴ cells/mm ³	4
	2)	Macrophage-like a) Langerhan c) Microglial	cells present in live	b)	called as Kuffer Alveolar	
	3)	Tonsils and appetissues. a) Gut c) Peyer's	endix are the examp		Bronchus Spleen	
	4)	Horny outer laye a) sebum c) cartilage	r of the skin called s	stratur b) d)	n corneum is made up of fatty acid keratin	
	5)	Spermine and a) cobalt c) zinc	present in the		en carry out antibacterial activity. copper nickel	
	6)	Spread of viral in immunity. a) interleukin c) chemokine	fection is avoided b	b) d)	as a member of innate interferon tumor necrosis factor	
	7)	Two or more cyto a) redundant c) synergetic	kines that mediate	simila b) d)	ar functions are called pleiotropic antagonist	
	8)	In the class I MH a) A c) C	C α-chain is encod	ed by b) d)	B all of these	
	9)	Antigen showing a) Incomplete a c) Haptens		d imm b) d)	nunological reactivity are Complete antigens Adjuvants	
	10)	a) IgD c) IgG	nomeric type of an	tibody b) d)	structure. IgA all of these	

	11)	antibody can pass the placenta.	
		a) IgG c) IgA d) IgM	
	12)	is the example of secretary antibody. a) IgG b) IgD c) IgA d) IgM	
	13)	End products of enzyme-substrate reaction are analyzed in test. a) Radioimmunoassay b) Immunoflurescence c) Precipitation d) ELISA	
	14)	Lissamine rhodamine is used in antigen – antibody test. a) ELISA b) immune-fluorescence c) RIA d) Complement fixation	
Q.2	A)	Answer the following questions. (Any Four) 1) Apoptosis. 2) Inflammation. 3) Racial immunity. 4) Paratope. 5) Affinity of interaction.	08
	B)	Write short notes (Any Two) 1) Titre. 2) B cell epitope. 3) T cells.	06
Q.3	A)	 Answer the following questions. (Any two) 1) Explain the role of Dendritic cells in immunity. 2) Describe in detail chemical barriers of innate immunity. 3) Write in detail on structure of Class II MHC. 	08
	B)	Answer the following questions. (Any One) 1) Describe in detail on structure and functions of IgA. 2) Explain in detail immune-diffusion tests.	06
Q.4	A)	 Answer the following questions. (Any Two) 1) What is adjuvant? Explain various examples with its functions. 2) Describe the structure and functions of thymus. 3) Explain in detail properties and functions of cytokines. 	10
	B)	 Answer the following questions. (Any One) 1) Explain the history of antibody discovery. 2) Describe in brief immunefluorescence test. 	04
Q.5	Ans a) b) c)	wer the following questions. (Any two) Write in detail on factors affecting antigenicity. Describe in detail on structure and functions of IgG. Explain in detail on immune-electrophoresis with suitable examples.	14