QP Code: 76136

For Paper Students For Research Stud		•			
N.B.: (1) All questions are compulsory (2) For paper students, each question carries 15 marks (3) For Research students, each question carries 20 marks					
Q.1. (a)	Discuss any one of the following:	7/10			
(i)	How is tolerance established and maintained?				
(ii)	Various tissue typing procedures.				
(b)	Comment on anyone of the following:	8/10			
(i)	Immunotherapy for treatment of cancer.				
(ii)	Various B-cell immunodeficiency disorders.				
Q.2. (a)	Answer any one of the following:	7/10			
(i)	Mosquito borne viral infections are posing a threat to public health. Justify				
(ii)	Discuss the major factors affecting emergence and re-emergence of				
()	infectious diseases.				
(b)	Answer anyone of the following:	8/10			
(i)	Explain the statistical tools used in epidemiology.				
(ii)	Discuss pathogenesis and post disease complications of malaria				
	caused by Plasmodium falciparium.				
Q.3 (a)	Answer any one of the following:	7/10			
(i)	Stem cells have a great potential in treatment of genetic disorders.				
(ii)	Justify. What is gene therapy? Discuss the different methods used in this.				
(b)	Discuss anyone of the following:	8/10			
(i)	Generation of Monoclonal antibodies and their applications.				
(ii)	Cell culture systems have proved to be very useful in research.				
Q.4 (a)	Answer anyone of the following:	7/10			
(i)	Various personnel are involved in any clinical research. Justify.				
(ii)	Write a short note on Good Clinical Practice responsibilities at the participating sites.				
	(TURN OVER)				

	(b)	(i) (ii)	Answer anyone of the following: Comment on: Patient has a right to autonomy in a clinical trial. Write a short note on development of malarial vaccines.	8/10
Q.5 (a)	(a)		Write short notes on any three of the following:	12/15
		(i)	Strategies used in prevention of hospital borne infections	
		(ii)	GVHD.	
		(iii)	Organ specific autoimmune disorders.	
		(iv)	Non-tubercle Mycobacterial infections.	
	(b)		Explain any one of the following:	3/5
		(i)	Immunologically privileged sites.	
		(ii)	Application of liposomes as drug delivery systems.	

2

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