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ND-140

November-2021

B.Sc., Sem.-V

303 : Microbiology (Principles of Immunology)

Max. Marks: 50 Time: 2 Hours] Instructions: All questions in Section –I carry equal marks. (2)Attempt any three questions from Section – I. (3) Questions in Section – II are compulsory. (4) Illustrate your answers with neat diagrams wherever necessary. Section - I Answer the following questions: Describe the types of acquired immunity. Write a note on characteristics of immune response. (B) Describe the production and functions of T and B cells. 2. Write a brief note on innate immunity. (B) Draw the labelled monomer structure of antibody and mention the role of 3. different parts. Write the characteristics of immunogen. (B) Write a brief account for the production and applications of monoclonal 4. antibodies. Describe various types of antigens in brief. **(B)** Describe the characteristics and applications of precipitation reactions. Write a brief note on ELISA. **(B)** Briefly describe the technique of immunofluorescence used in immunology. 6. Describe the characteristics and applications of agglutination reactions. (B) P.T.O.

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7.	(A)	What is autoimmunity? Describe any one auto immune disease.
	(B)	Describe the concept of blood banking and its significance.
8.	(A)	Write a brief account for the transplantation immunity.
	(B)	Write a brief note on human blood group system.
		Section – II
9.	Wr	te briefly in one or two lines: (Attempt any eight)
E 51500	(1)	Enlist types of Agranulocyte white blood cells.
	(2)	Name one Peripheral lymphoid organ.
	(3)	Write one character of Serum sickness reaction.
	(4)	Write name of any one adjuvant.
	(5)	Name one immunosuppressive drug.
	(6)	Define : Agammaglobulinemia.
	(7)	Name one radioisotope used for immunoassay.
	(8)	
	(9	Name the precursor substance required for the formation of A and B blood group antigen.
	(1	0) Write names of any two blood clotting agent.
	(1	1) Name the blood group functioning as an universal recipient.
	(1	2) Write one use of MHC antigens.
	(1	3) Mention name of any one skin test and its use.
	((4) Write one function of Neutrophil cells.
	(15) Write names of two Iso antigens.
	(16) Write one characteristic of complement.