

HDU-1603120102030700 Seat No. ____

M. Sc. (Biochemistry) (Sem. III) (CBCS) Examination November / December - 2017 CBC-7: Immunology

Time	e :	Hours] [Total Marks	: 70
1	Ansv	wer briefly any seven of the following questions:	14
	(a)	State the mechanism of cytokine action.	
	(b)	What is humoral immunity?	
	(c)	Difference between Immunogenicity and Antigenicity	
	(d)	What are Hapten and Adjuvants?	
	(e)	Explain oxygen dependent killing of pathogen.	
	(f)	State the components and role of MAC.	
	(g)	State the role of proteosome.	
	(h)	Explain Adaptive immunity.	
	(i)	Give the role of basophils.	
	(j)	What are Complementary Determining Region?	
2	Answer any two of the following questions:		14
	(a)	Explain about Isotypic, idiotypic and allotypic recognition in antibodies.	1
	(b)	Write a detailed note on innate immunity and its defensive barriers.	3
	(c)	Explain about hybridoma technology.	
3	(a)	Write a note on types of Hypersensitivity reactions.	7
	(b)	Give a detailed note on IgG, IgE and IgA.	7
		OR	
	(a)	Explain in detail primary lymphoid organs.	7
	(b)	Explain: Role of immunity in Cancer.	7
HDU	J-160	3120102030700] 1 [Co	ntd

- 4 Answer the following questions:
 - (a) Discuss about Mechanism of Variable-Region DNA Rearrangements.
 - (b) How exogenous antigen processing and presentation occurs?
- 5 Answer the following questions: (any two) 14
 - (a) Discuss about types and uses of different vaccines.
 - (b) What is cross reactivity and explain various techniques of antigen-antibody reaction on the basis of precipitation principle?
 - (c) What are Autoimmune disorders? Explain with two examples.
 - (d) Justify: Severe immunodeficiency is caused by the human immunodeficiency virus.

14