

PG-003-001637

Seat No.

B. Sc. (Biochemistry) (Sem. VI) (CBCS) Examination July - 2018

BC-602: Immunology

Faculty Code: 003

Subject Code: 001637

Time : $2\frac{1}{2}$ Hours] [Total Marks : 70

- 1 Answer the following questions in one word or one line: 20
 - (1) Write name of enzymes participate in degradation of immunoglobulin.
 - (2) _____ Immunoglobulin can cross the plecents.
 - (3) Define the avidity of antigen-antibody reaction.
 - (4) Write the difference between endogeneous and exogeneous antigen.
 - (5) Write the factors affecting the antigenicity of antigen.
 - (6) What is the difference between precipitation and agglutination reaction.
 - (7) Write the name of complements participate in alternative pathway.
 - (8) Write the advantages of adjuvants.
 - (9) How many V_{λ} , J_{λ} and C_{λ} segments are present in. λ -Chain multigene family of human .
 - (10) Write the types of dendritic cells.
 - (11) Write the full form of CLIP
 - (12) What do you understand by the term germinal center?
 - (13) Which cell types are abundant in paracortex of lymph nodes?
 - (14) Write the full form of HLA gene complex
 - (15) Write the role of Ubiquitin in antigen processing.

(16)	Write at least two examples of opsonins.		
(17)	(17) Write the full form of BCR and TCR.		
(18)		ne the function of colony forming units in opoiesis.	
(10)		te the components of anatomical barrier.	
•		ne the term: margination.	
(20)	Den	ne the term. margination.	
(A)	Answer any three from the following:		6
	(i)	Write the difference between type-I and type-II hypersensitive reaction.	
	(ii)	Write the difference of active and passive immunization	
	(iii)	Write the functions of IgG	
	(iv)	Draw the diagram showing autocrine function of cytokine.	
	(v)	Explain the method double diffusion in one dimension.	
	(vi)	Write the significance of fever.	
(B)	Answer any three from the following:		9
	(i)	Write a short note on primary immune response	
	(ii)	Briefly explain immunoglobulin IgG.	
	(iii)	Write a note on B cell	
	(iv)	Explain radial immune diffusion.	
	(v)	Draw a well labeled diagram of spleen.	
	(vi)	Briefly explain HIV with mode of action	
(C)	Ans	wer any two from the following:	10
	(i)	Explain the agglutination inhibition reaction with	

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example.

(ii) Write a note on phagocytosis with diagram

(iii) Explain classical: pathway of complement system:

(iv) Define autoimmune response and explain SLE.

- 3 (A) Answer any three from the following:

 (i) Write the sign and symptoms of AIDS.

 (ii) Write the, full form of KIR and KAR

 (iii) What do you understand by direct ELISA?

 (iv) Define humoral immune response
 - (v) Write the function of C_3 convertage in complement system.
 - (vi) Write the role of plasma cell and memory cell.
 - (B) Answer any three from the following:
 - (i) Write a note on BCG vaccine.
 - (ii) Explain epitop and paratop with diagram.
 - (iii) Draw the diagram showing the processing of cytosolic antigen.
 - (iv) Explain immunoglobulin with labeled diagram
 - (v) Draw labeled diagram showing inflammation:
 - (vi) Write a detail note on type-II hypersensitive reaction.
 - (C) Answer any two from the following:
 - (i) Explain λ -light chain multigene organization of Ig genes.
 - (ii) Write a note on MHC class II and its interaction of antigenic peptide.
 - (iii) Explain with diagram: Thymus
 - (iv) Explain any two types of attenuated vaccines.
 - (v) Write a detail note on RIA with its advantages and disadvantes.