[15]

No. of Printed Pages: 2

Sardar Patel University Fifth semester examination-2013

Subject-Genetics
Course-US05CGEN05 - Immumogenetics
Date: 22/11/13
Total Marks-70

Time 3 hrs

10.30-1.30 pm

1	Multiple Choice Questions (one mark each) [10]
1	Alum is used as
	A) Epitopes B) Haptanes C) Adjuvant D) None of above
2	Agglutination is atype of immunoassay
	A) Qualitative B) Quantitative C) Both A and B D)All of above
3	class of antibody is found in least concentration
	(a) IgA (b) IgD (c) IgG (d) IgE
4	Heavy chain immunoglobulin genes in humans are located on chromosome number
	(a) 22 (b) 16 (c) 12 (d) 14
5	Endogenous antigen is processed by pathway
	A)Cytosolic B) Endogenous C) Both A and B D) None of above
6	Effector molecule in Type I hypersensitivity is
	A) IgE B) IgG C)IgM D)IgD
7	Time required for seroconversion in HIV infection is
	A)10 weeks B) 12 weeks C) 15 weeks D) 20 weeks
8	Example of primary immunodeficiency is
	A) AIDS B) SCID C)Both A and B D) All of above
9	Least accepted graft is
"	A)Allograft B) Autograft C) Xenograft D) Both A and B
10	One Turn RSS has intervening sequence of
	(a) 23bp (b) 12bp (c) both a and b (d) 24bp
Q2	Short questions: attempt any ten [20]
1	Give principle of Complement fixation test.
2	Give characteristics of antigen-antibody reactions.
3	Draw Immunoglobulin structure
4	Give full form of BCR & TCR and define Clonal-selection theory
5	Define Monoclonal antibodies.
6	Enlist theories for Antibody diversity
7	Define inflammation, give the signs of inflammation.
8	Enlist functions of complement proteins

7	Ove different strategies for minimulosuppression	
10	Define Hypersensitivities ,enlist its types	
11	Define Vaccines, enlist its types	
12	Define Immunodefeciencies. Enlist its types with example.	
O 3 a	Discuss in detail principles and types of enzyme linked Immunosorbent assay	[06]
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0.	OR	ניטן
Q.3 a.	Write a detail note on precipitation curve	[06]
b.	Write a short note Complement fixation tests	[04]
Q.4	Discuss in detail genetic basis of antibody diversity	[10]
	OR AND AND	[**]
Q.4 a.	Discuss in detail deletional joining of immunoglobulin genes	[06]
b.	and the control of th	[04]
Q.5 a.	Write a note on Classical pathway for complement activation	[05]
b.	Write a brief note on MHC- class II structure and function	[05]
	$\mathbf{OR}_{_{\mathrm{C}}}$	
Q.5 a.	Write a explanatory note on activation of complement proteins by alternative pathway	[05]
b.	Discuss endogenous pathway for Antigen processing and presentation	[05]
Q.6 a.	Write a detail note on AIDS	[06]
b.	Write a short notes on Vaccines	[04]
	OR	
).6 a.	Discuss mechanisms of generation of auto immune disorders	[06]
b.	Write a short note on Hypersensitivities	[04]

ALL THE BEST