63 & A-487

SARDAR PATEL UNIVERSITY

B.Sc. Semester - V Examination

April - 2018

Microbiology - US05CMIC04 **Immunology**

Monday -12.04.2018

Time	9	nn.	om to	F.00	nm
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Total Marks: 70

Q.1. Select the most appropriate answer:

(10)

- 1) Macrophages originate from:
 - (a) Monocytes
- (b) Lymphocytes
- (c) Platelets
- (d) Erythrocytes
- 2) Following is not a primary lymphoid organ:
 - (a)Spleen
- (b) Lymph Node
- (c) Both (a) & (b)
- (d) Thymus
- 3) The recognition molecule that triggers Classical Complement pathway is:
 - (a) C₁ Component
- (b) C2 Component
- (c) C5 Convertase
- (d) Mannose binding protein
- 4) Cell surface receptor for HIV is:
 - (a) CD₄
- (b) CDg
- (c) CD38
- (d) CD48
- 5) Immune response can be improved by use of:
 - (a) Hapten
- (b) Adjuvant
- (c) Isotope
- (d) None of these
- 6) J chain is present in:
 - (a) IgG

(b) IgE

(c) IgM

- (d) IgD
- 7) Monoclonal antibodies were first produced by:
 - (a) Hybridomas
- (b) Diclonal antibodies
- (c) Polyclonal antibodies (d) None of these
- 8) Combinatorial joining of gene segments during B cell maturation leads to:
 - (a) Diversity of Antibodies (b) Immunological Tolerance
 - (c) Immunodeficiency
- (d) Clonal selection
- 9) Autoimmune Thrombocytopenia involves Autoantibodies against:: (a) Platelets
 - (b) WBC
 - (c) RBC
- (d) None of these
- 10) Severe Combined Immunodeficiency involves defects of:
 - (a) T cell
- (b) B cell
- (c) B & T cells
- (d) None

P.T.O

Q.2. Answer in short: (Any 10)	(20)						
1) Explain the role of Mast cells in immune response.	()						
2) Describe the properties of Complement.							
3) What is opsonization?							
 4) What is Cell mediated immunity? 5) What is the role of Interleukin-2 in specific immune response? 6) What is Antigen presentatation? Name one Antigen Presenting Cell. 							
						7) Explain the term Passive agglutination.	
						8) Write the significance of Clonal Selection Theory.	
9) What is Lattice Hypothesis?							
10) Explain the significance of Immunotherapy in Cancer.							
11) What is Type IV Hypersensitivity?							
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12) What is Myasthenia Gravis?							
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Q.3. Write in detail on: Acute & Chronic Inflammation.	(10)						
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Q.3. Explain the following:							
(A) killing Mechanism in Phagocytosis.	(06)						
(B) Alternative Pathway of Complement.	(04)						
Q.4. Write an Essay on: B Cell Biology	(10)						
OR							
Q.4. Write notes on:							
(A) T Cell Receptor & Types of T cell.							
(B) Recognition of foreignness							
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Q.5. Explain the Basic Structure of Immunoglobulin Molecule & Write on							
the structure & functions of IgM molecule.	(10)						
OR 4							
Q.5 Write notes on:							
(A) Diversity of Antibodies.	(05)						
(B) Primary & Secondary antibody response.	(05)						
Q.6. Write an Essay on: Transplantation Immunology.	(10)						
OR							
Q.6. Write an Essay on: Autoimmunity.	(10)						
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