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SARDAR PATEL UNIVERSITY

V.V. NAGAR

T.Y.BSc. Examination. 2016

VI SEMESTER BIOCHEMISTRY USO6CBCH05 IMMUNOLOGY

Date: 6 /04/16

Time: 2:30 to 5:30 pm

Total Marks: 70

Q1. Multiple Choice Questions: (1 mark each) 10

1. From one of the following statements about exo-toxins is false?
 - (a) Action is often enzymatic
 - (b) have specific tissue affinity
 - (c) are active in very minute doses
 - (d) polysaccharides- lipids complex in nature
2. From the following which name is used for the innate immunity?
 - (a) Non specific immune response
 - (b) Specific immune response
 - (c) Adaptive immune response
 - (d) Acquired immunity
3. From which the following, B lymphocytes are generated?
 - (a) Bone marrow
 - (b) Spleen
 - (c) Thymus
 - (d) Heart
4. Widal test is a type of -----
 - (a) Precipitation
 - (b) agglutination
 - (c) complement fixed test
 - (d) immune fluorescence
5. The reaction of soluble antigen with antibody is known as -----
 - (a) Complement
 - (b) Precipitation
 - (c) Agglutination
 - (d) Flocculation
6. Graft versus host reaction is caused by-----
 - (a) B -lymphocytes
 - (b) T- lymphocytes
 - (c) Macrophages
 - (d) Complement
7. Cancer cells are characterized by -----
 - (a) Uncontrolled growth
 - (b) Invasion of local tissues
 - (c) Metastasis
 - (d) all of the above
8. Passive immunity is acquired through -----
 - (a) Humanised monoclonal antibody
 - (b) natural material
 - (c) immune globulin
 - (d) all of these
9. Which of the following is immune complex mediated hypersensitivity?
 - (a) Type- I
 - (b) Type-II
 - (c) Type-III
 - (d) Type-Iv
10. Rheumatoid arthritis is a-----
 - (a) Autoimmune disease
 - (b) Type I Hypersensitivity
 - (c) Vaccination Type
 - (d) All of the above

Q-2 Answer in very short (any ten)

- 1) Write difference between Active immunity and passive immunity.
- 2) Write role of WBC and NK cells in immunity.
- 3) Define immunity and innate immunity.
- 4) Define antigen and antibody.
- 5) Define precipitation and Agglutination.
- 6) Write Function of Ig G.
- 7) Explain any two classes of MHC molecule.
- 8) Define auto graft and Iso graft.
- 9) Define allograft and xeno graft.
- 10) Define immunization vaccines.
- 11) Write explanatory note on autoimmunity.
- 12) Explain hypersensitivity in short.

Explain as required

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|---|----|
| Q3. (a) Explain: First line of defense mechanism. | 5 |
| (b) Write short note on methods of transmission infection. | 5 |
| OR | |
| Q.3 (a) Explain: second line of defense. | 5 |
| (b) Explain primary lymphoid organ. | 5 |
| Q.4 (a) Write short note on structure of Antibody. | 5 |
| (b) Explain general features of Ag-Ab reaction. | 5 |
| OR | |
| Q.4 (a) write short note essential feature of Ag. | 5 |
| (b) Explain IgG. | 5 |
| Q. 5 (a) Explain allograft reaction. | 5 |
| (b) Explain HLA complex. | 5 |
| OR | |
| Q.5 (a) Write short note on various classes of transplantation. | 5 |
| (b) Explain: Class-II MHC molecules. | 5 |
| Q.6 Explain in detail: AIDS. | 10 |
| OR | |
| Q.6 Explain in detail: Rheumatoid arthritis. | 10 |

X=X=X
 (2)