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No. of Printed Pages: 2

SARDAR PATEL UNIVERSITY
Vth Semester Examination: November 2013
T.Y.B.Sc. MICROBIOLOGY
US05CMIC04 (IMMUNOLOGY)

Date: 20th Nov. '13

Time: 10:30 to 1:30 pm

Total Marks: 70

Q: 1 MCQs. [Rewrite the question in order by choosing the best option] 10 marks

- 1] The nonspecific immune response reaction to tissue injury is also known as _____.
A] Complementation B] Inflammation C] Phagocytosis D] none of the option
- 2] _____ is a lymphoid organ located above the heart.
A] Thymus B] spleen C] bone marrow D] SALT
- 3] All the nucleated cell possesses _____ on its surface.
A] MHC I B] CD-8 C] IgM D] CD-4
- 4] Penicillin is an example of _____.
A] CDs B] antigen C] antibody D] heptanes
- 5] Which of the following immunoglobulin possess four (4) antigen binding sites?
A] IgD B] IgA C] IgM D] IgG
- 6] Each light chain of immunoglobulin usually consists of about _____ amino acids.
A] 220 B] 440 C] 120 D] 210
- 7] Glomerulonephritis and arthritis are included in _____ type hypersensitivity.
A] Type I B] Type II C] Type III D] Type IV
- 8] In 1963 Peter Gell and Robert Coombs developed a classification system for reaction responsible for _____.
A] Hypersensitivity B] Autoimmunity C] Transplants D] Cancers
- 9] Which one of the following antibodies is elicited against an allergen?
A] Agglutinins B] Regains C] Precipitins D] All of the options
- 10] Transplants between genetically different individuals within a species are termed as....
A] Allografts B] Xenograft C] Autograft D] Isograft

Q: 2 Do as directed. **Attempt any TEN. [Write answers in order]** **20**

1. What are IFNs?
2. What are Macrophages? Describe their immune function.
3. What are complements? Enlist the pathways for its activation.
4. What is cluster of differentiation molecules?
5. Write full form of : HLAs, BCRs
6. What are Haptens?
7. Enlist the immunoglobulin classes.
8. Differentiate 1° and 2° immune response.
9. Describe the characteristics of an antigen.
10. What consequences may rise if lady with Rh Negative factor married to Rh positive individual?
11. What are autoimmune diseases?
12. What is Allergic contact dermatitis?

Q: 3 A) How does chronic inflammation differ from acute inflammation? **10**

B) Which organs are involved in immunity? Narrate any three of them.

OR

- A) Describe the process of opsonin-independent phagocytosis.
- B) What are Cytokines? Describe its contribution in immune response.

Q: 4 Write brief notes on: **10**

- A) Types of T Cells
- B) B cell.

OR

- A) Differentiate between Humoral immunity and Cell Mediated Immunity.
- B) Write note on types of MHC.

Q: 5 A) What is monoclonal antibody? **10**
B) Narrate general features of Ag-Ab interactions.

OR

- A) Compare and contrast Agglutination and precipitation reactions.
- B) Write note on architecture of typical immunoglobulin.

Q: 6 Write descriptive note on type I hypersensitivity. **10**

Write note on immunodeficiency diseases.

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