

(A-11) Seat No: _____

No. of Printed Pages: 2

SARDAR PATEL UNIVERSITY

T. Y. B.Sc. (V Sem) Examination - 2016 [CBCS] (NC)
FRIDAY, 13 May, 2016 TIME: 10:30 AM - 1:30 PM
US05CMIC04 (IMMUNOLOGY)

Maximum Marks: 70

Q.1. Each question below gives a multiple choice of answers. Choose the most appropriate [10] one.

- 1 _____ is the largest lymphoid organ
(a) Bone marrow (b) Thymus
(c) Spleen (d) CALT
- 2 Mononuclear phagocytic leukocytes are known as
(a) Neutrophils (b) Macrophages
(c) Eosinophils (d) Basophils
- 3 _____ is the recognition unit in classical complement pathway
(a) C₃ (b) C₄
(c) C₂ (d) C₁
- 4 _____ is the cell surface receptor for HIV
(a) CD-2 (b) CD-8
(c) CD-34 (d) CD-4
- 5 _____ contributes in humoral immune response
(a) T cells (b) Macrophages
(c) Antibodies (d) None of these
- 6 Each light chain polypeptide contains _____ amino acids
(a) 120 (b) 250
(c) 125 (d) 220
- 7 _____ are also termed as secretory antibodies
(a) IgM (b) IgD
(c) IgE (d) IgA
- 8 Blood grouping and cross matching can be performed by _____ agglutination reaction
(a) Tube (b) Slide
(c) Positive (d) Co-agglutination
- 9 _____ is a type of systemic autoimmune disease
(a) SLE (b) Hashimoto's disease
(c) Pernicious anemia (d) All of these
- 10 Type IV hypersensitivity is mediated by _____
(a) Sensitized T-lymphocyte (b) Antibodies
(c) Antigen (d) None of the above

Q.2 Short Questions (Attempt any TEN)

[20]

(P.T.O.)

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- 1 Differentiate between acute chronic inflammation
 - 2 What are mast cells and what is their role in allergy?
 - 3 Enlist the various Reactive nitrogen intermediates
 - 4 Define: Antigen, Avidity
 - 5 Enlist difference signals required for activation of T-cells
 - 6 What is antigen processing?
 - 7 Differentiate between precipitation agglutination reaction
 - 8 What is primary and secondary immune response
 - 9 Write the properties of IgA
 - 10 Define the terms Atopy and Anaphylaxis
 - 11 Define hypersensitivity and how is it classified?
 - 12 Enlist the factors influencing anaphylaxis
- Q. 3 Describe in detail the process of phagocytosis [10]
OR
- Q. 3 What is complement? Explain the classical pathway of complement system [10]
- Q. 4 A Give an account on types of T-cells [07]
B Write in brief about MHC I molecules [03]
OR
- Q. 4 A Cluster of differentiation molecules [06]
B B cell activation [04]
- Q. 5 [A] Explain the basic structure of an immunoglobulin molecule [06]
[B] Write a note on lattice hypothesis [04]
OR
- Q. 5 [A] Describe general feature of antigen antibody reaction [05]
[B] Write a note on Clonal selection theory [05]
- Q. 6 [A] What is autoimmunity? Explain SLE [06]
[B] Write a note on Arthus reaction [04]
OR
- Q. 6 [A] Explain Type I hypersensitivity [07]
[B] Write a note on Tuberculin test [03]

— X —
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