

SEAT NO. _____

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SARDAR PATEL UNIVERSITY
B.Sc. Examination
Date: 29/12/2020
Microbiology - Semester V
US05CMIC04 – Immunology

Time: 2.00 to 4.00 pm

Total Marks: 70

N.B. (i) Attempt All questions. (ii) Marks are indicated on the right.

Q.1. Select the right answer.

(10)

- 1) _____ cell is antibody producing cell.
(a) Dendritic. (b) Monocyte.
(c) Plasma. (d) None of these.
- 2) _____ cell plays major role in allergic response.
(a) Erythrocyte (b) Basophil.
(c) Monocyte (d) None of these.
- 3) _____ antigens are present on every nucleated cell.
(a) MHC class I (b) MHC class II
(c) MHC class III (d) All of these.
- 4) _____ character/s distinguishes specific and non-specific immunity.
(a) Specificity. (b) Diversity.
(c) Discrimination. (d) All of these.
- 5) Complement factor properdin has key role in _____ pathway.
(a) Classical (b) Alternative
(c) Lectin (d) All of these.
- 6) _____ class of immunoglobulin occurs in least amount in our body.
(a) IgG (b) IgM
(c) IgD (d) IgE
- 7) The test used to detect anti Rh antibodies is called _____.
(a) Weil-Felix reaction test (b) Widal test
(c) Coomb's test (d) None of these.
- 8) Antibodies that show variation in heavy chain constant regions are called _____.
(a) Idiotype. (b) Isotype.
(c) Allotype. (d) None of these.
- 9) TATA means Tumor _____ Transplantation Antigens.
(a) Associated (b) Acquainted.
(c) Acquired (d) None of these.
- 10) Transplantation between genetically non identical persons is called _____.
(a) Allograft (b) Autograft
(c) Xenograft (d) Isograft

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(P.T.O.)

Q.2) (a) Fill in the blank.

(8)

- 1) PAMPs is ____ associated molecular patterns.
- 2) T lymphocytes mature in ____.
- 3) ____ class of immunoglobulin is pentameric in structure.
- 4) Contact dermatitis is an example of type ____ hypersensitivity reaction.

(b) State true or False.

- 1) Natural killer cells play important role in Innate immunity.
- 2) Haptens are complete antigens.
- 3) IgA antibody is in dimeric form.
- 4) AIDS is an example of autoimmune disease.

Q.3) Answer in brief (Any 10)

(20)

- 1) Define: MAC and state its role in complement system.
- 2) What are Collectins?
- 3) State difference between B and T lymphocyte.
- 4) Define giving example: CDs.
- 5) What are super antigens?
- 6) What is BCR?
- 7) Write 2 general features of Antigen-Antibody reactions.
- 8) Differentiate primary and secondary immune response.
- 9) What is passive agglutination test?
- 10) What is Chronic Granulomatous Disease?
- 11) What is GVH reaction?
- 12) Give examples of auto immune diseases.

Q.4) Answer in detail. (Any four)

(32)

- 1) Short Note: Acute Inflammatory Response.
- 2) Explain: MBL pathway of complement system.
- 3) Define: Immunity. Explain different types of immunity.
- 4) Write a note: Types of T cells.
- 5) Write in Physico-chemical and biological properties of IgG.
- 6) Explain: Electro immunodiffusion methods.
- 7) Explain: Rh Incompatibility reaction in detail.
- 8) Short Note: Tumor Immunology.

X

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