



D-003-001637

Seat No. _____

B. Sc. (Sem. VI) (CBCS) Examination

April / May – 2015

Biochemistry

(BC-602 : Immunology)

Faculty Code : 003

Subject Code : 001637

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Instructions :**
- (i) Figures in the right indicate marks.
 - (ii) All questions are compulsory.
 - (iii) Draw a diagram wherever necessary.
 - (iv) Write answers of all questions in main answer sheet.

SECTION - I

1 Multiple choice questions : 20

(1) Who worked on the Ag responsible for allograft rejection in inbred mice that lead to discovery of MHC ?

- (A) Gorer
- (B) Snell
- (C) Daussets
- (D) Bennaceraf

(2) MHC is responsible for ?

- (A) Immune response
- (B) Transplantation reaction
- (C) Complement fixation
- (D) All

- (8) Macrophage in liver is known as.
- (A) Kupffer cells (B) Alveolar cells
(C) Microglial cells (D) Mesangial cells
- (9) Which is the first step of phagocytosis ?
- (A) Chemotaxis (B) Adherence
(C) Opsonization (D) Fusion
- (10) In birds which is the primary site for B-cell maturation ?
- (A) Appendix (B) Spleen
(C) Bursa of fabricus (D) Lymph
- (11) Which of the following is not a type of tonsils ?
- (A) Palatine tonsil
(B) Lingual tonsil
(C) Papilla tonsil
(D) Pharyngeal tonsil
- (12) Which of the following is cell mediated hypersensitivity ?
- (A) Type I (B) Type II
(C) Type III (D) Type IV
- (13) A type - I hypersensitive reaction is mediated by ?
- (A) IgG (B) IgM
(C) IgA (D) IgE

- (14) _____ disorders are acquired defects resulting from drugs.
- (A) Secondary immunodeficiencies
 - (B) Primary immunodeficiencies
 - (C) Tertiary immunodeficiencies
 - (D) Both (A) and (C)
- (15) HIV belongs to subfamily of _____
- (A) Lentivirinae
 - (B) Bennacarae
 - (C) Cannabaceae
 - (D) None
- (16) The term vaccine was devised by ?
- (A) Louis Pasteur
 - (B) Edward Jenner
 - (C) Antony von Lewenhock
 - (D) Both (A) and (B)
- (17) What is the Hallmark of AIDS ?
- (A) Increased CD4⁺T cells
 - (B) Decreased CD4⁺T cells
 - (C) Decreased CD8⁺T cells
 - (D) Decreased CD8⁺T cells

- (18) _____ is a biological preparation that provides active acquired immunity to a particular disease
- (A) Vaccine (B) Hormone
(C) Steroid (D) Opsine
- (19) Which of the following is the toxoid based vaccine ?
- (A) Tetanus (B) Plague
(C) Influenza (D) Rabies
- (20) AIDS stands for ?
- (A) Auto Immuno Diseases Symptoms
(B) Acquired Immune Deficiency Syndrome
(C) Analogue Immuno Disorders Syndrome
(D) Adaptive Immune Diseases Syndrome

SECTION - II

- 2** (a) Answer any three out of six : **6**
- (1) What is Immunity ?
(2) Define Immunization ?
(3) What is Opsonization ?
(4) What is HLA ?
(5) Write the name of the cells of Lymphoid Lineage.
(6) What is Immunogenicity ?
- (b) Answer specifically any three out of six : **9**
- (1) Explain Thymus.
(2) Describe the Myeloid progenitor cells.

- (3) Explain the structure of MHC-1.
 - (4) Explain Adaptive Immunity.
 - (5) Explain Antigen.
 - (6) Explain the factors affecting Immunogenicity.
- (c) Write notes on : (any two out of five) **10**
- (1) Describe the history of Immunology.
 - (2) Explain the types of immunity.
 - (3) Classify immune response.
 - (4) Explain MHC in humans.
 - (5) Explain the cells of the immune system.
- 3** (a) Answer any three out of six : **6**
- (1) Define Adjuvants and Epitopes.
 - (2) What is Haptens ?
 - (3) What is Mitogens ?
 - (4) Define : Antigens and Antibodies.
 - (5) What is cancer ?
 - (6) Define : Vaccines.
- (b) Answer specifically any three out of six : **9**
- (1) Explain the structure of Antibody.
 - (2) Explain Phagocytosis.
 - (3) Explain invitro Ag-Ab reactions.
 - (4) Describe Type-I hypersensitive reaction.
 - (5) Explain the different types of vaccines.
 - (6) Explain the virus causing AIDS.

(c) Write notes on : (any two out of five) **10**

- (1) Explain briefly Tumor immunology
 - (2) Describe Ag processing and presentation
 - (3) Explain Immunodeficiency disorders
 - (4) Explain Hypersensitivity
 - (5) Explain HIV.
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