



D-003-001631

Seat No. _____

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

April / May – 2015

Microbiology : MB-601

(Immunology & Clinical Microbiology)

Faculty Code : 003

Subject Code : 001631

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

[Total Marks : 70

- Instructions :** (1) All questions are compulsory.
(2) The right side figures indicate marks of question.
(3) Draw figures wherever required.

SECTION – I

1 MCQ : 20

(1) Example of acquired active artificial immunity is

(A) Vaccine (B) Colostrum

(C) Saliva (D) None

(2) 'Negative phase' is observed in

(A) Active immunity (B) Passive immunity

(C) (A) and (B) both (D) None

- (3) Any substance that enhances immunogenicity is known as
- (A) Hapten (B) Epitope
- (C) Adjuvant (D) Polysaccharide
- (4) Bacteria readily escaped phagocytosis due to
- (A) flagella (B) cell wall
- (C) capsule (D) spore
- (5) Half life of IgG is
- (A) 23 days (B) 6 days
- (C) 10 days (D) 12 days
- (6) During the studies on structure of Ig, which substance is used to digest it ?
- (A) Amylase (B) DNase
- (C) Papain (D) Ligase
- (7) Protection of blood stream is carried out by which Ig ?
- (A) IgA (B) IgM
- (C) IgG (D) IgD

- (8) Clonal selection theory was proposed by
(A) Burnet (B) Koch
(C) Pasteur (D) None
- (9) Auto immunity of testicle is known as
(A) Autoimmune orchitis
(B) Myasthenia gravis
(C) Addison's disease
(D) None
- (10) Serum sickness is which type of hypersensitivity ?
(A) Type-I (B) Type-II
(C) Type-III (D) Type-IV
- (11) Which is immunodeficiency syndrome related to disorder of phagocytosis ?
(A) ADA deficiency
(B) Di George's syndrome
(C) Lazy leucocyte syndrome
(D) None
- (12) Endotoxins are
(A) Δ labile
(B) Proteins
(C) Produced by gm-ve bacteria
(D) All of above

(13) Which organisms are responsible for food poisoning ?

(A) Staphylococci (B) Clostridia

(C) (A) and (B) both (D) None

(14) When pathogens are able to cross the placental barrier and infect the foetus 'in utero' are called as

(A) Primary infection

(B) Secondary infection

(C) Iatrogenic infection

(D) Congenital infection

(15) RPR test is for the detection of

(A) Typhoid fever (B) Syphilis

(C) Yellow fever (D) Malaria

(16) Infectious diseases transferred from animal to man are called as

(A) Epidemic (B) Endemic

(C) Zoonoses (D) None

(17) The person who carries pathogens but does not show symptoms are known as

- (A) Convalescent carrier
- (B) Healthy carrier
- (C) Chronic carrier
- (D) None

(18) Tuberculosis is transmitted through

- (A) Inhalation
- (B) Water
- (C) Food
- (D) Insect

(19) Which organisms are responsible for dysentery ?

- (A) Salmonella
- (B) Shigella
- (C) E. Coli
- (D) Bacteroids

(20) Which are pharmacologically active compounds ?

- (A) Histamine
- (B) SRS-A
- (C) (A) and (B) both
- (D) None

SECTION – II (DESCRIPTIVE)

- 2 (A) Answer any **three** : **6**
- (1) Define : Hapten
 - (2) What is IgE ? Write its function.
 - (3) What is 'Tumor' ?
 - (4) Which are causative agents of Malaria ?
 - (5) Which tests are required before blood transfusion ?
 - (6) Enlist cells and organs of Immune system.
- (B) Answer in brief : (any **three**) **9**
- (1) Enlist factors influencing immunogenicity.
 - (2) Define : Antibody affinity and avidity.
 - (3) What is PIDD and SIDD ?
 - (4) Which are microbial virulence factors ?
 - (5) What is immuno fluorescence ?
 - (6) What are Isoantigens ?
- (C) Write short notes on : (any **two**) **10**
- (1) "Natural immunity"
 - (2) Monoclonal antibody
 - (3) Organ specific autoimmune diseases
 - (4) Disease caused by Gm positive bacteria
 - (5) Immuno electrophoresis.

- 3 (A) Answer any three :** **6**
- (1) What is Herd immunity ?
 - (2) Write biological function of IgA.
 - (3) What is GVH ?
 - (4) What are serovars ?
 - (5) What are vaccines ?
 - (6) What is contact dermatitis ?
- (B) Answer in brief : (any three)** **9**
- (1) Write about lymphocytes.
 - (2) Write structure and function of IgM.
 - (3) Describe Arthus reaction.
 - (4) Name of the pathogen responsible for syphilis, leprosy and typhoid.
 - (5) Describe "Agglutination".
 - (6) Write normal flora of urinogenital tract ?
- (C) Write short notes on : (any two)** **10**
- (1) Acquired immunity
 - (2) IgG
 - (3) Anaphylaxis
 - (4) Malaria
 - (5) ELISA.
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