



Seat No. _____

HAJ-003-1015009

B. Sc. (Sem.-V) (WEF-2016 Course)

Examination

May - 2023

**MB-501 : Immunology and
Medical Microbiology**

Faculty Code : 003

Subject Code : 1015009

Time : $2\frac{1}{2}$ Hours / Total Marks : 70

- Instructions :**
- (1) All questions are compulsory.
 - (2) Draw figure where ever necessary.
 - (2) The right side figures indicate marks of the question.

1 Answer in short : 20

- (1) What is CMI and AMI ?
- (2) What are NK cells ?
- (3) What is Innate Immunity ?
- (4) Enlist Immune cells.
- (5) What are T-helper cells ?
- (6) What is Interleukin ?
- (7) What is Primary Immune Response ?
- (8) What is Phagocytosis ?
- (9) Write two criteria to be antigenic.
- (10) What is biological function of IgA ?
- (11) What is IgG ? What is its biological function ?
- (12) What are Epitopes ?
- (13) What is ADCC ?
- (14) Define Anaphylaxis.
- (15) What is DiGeorge syndrome ?

- (16) What is SLE ?
- (17) Define Pathogenecity.
- (18) What is Nosocomial and latent infection ?
- (19) What is Bacteremia ?
- (20) What is Toxin ? Give two examples.
- 2** (a) Answer in short : (any 3 from 6) **6**
- (1) What is Natural Immunity ?
 - (2) What are Lymphocytes ? Write their types.
 - (3) Which are Antigen presenting cells ?
 - (4) Write types of chains and bonds in immunoglobulin structure.
 - (5) Define Delayed type hypersensitivity.
 - (6) Which factors affect normal flora of healthy human host ?
- (b) Answer in short : (any 3 from 6) **9**
- (1) Describe Neutrophiles.
 - (2) Explain : Character of Immune system.
 - (3) Explain : Cytokines.
 - (4) Write any two mechanisms of Auto immunity.
 - (5) What is Arthus Reaction ?
 - (6) What is toxin ?
- (c) Answer in short : (any 2 from 5) **10**
- (1) Natural Immunity
 - (2) Monoclonal antibody
 - (3) What is MHC ?
 - (4) Type I Hypersensitivity.
 - (5) Normal flora of Respiratory Tract.
- 3** (a) Answer in short : (any 3 from 6) **6**
- (1) What is Active immunity ?
 - (2) Write the signs of inflammation.
 - (3) Define Immunogenecity.
 - (4) Explain Freund's Adjuvants.
 - (5) What is Grave's disease ?
 - (6) What is Virulence power ?

- (b) Answer in short : (any 3 from 6) **9**
- (1) Explain Passive Immunity.
 - (2) Properties of Antigen.
 - (3) Explain : Complement Fixation Test.
 - (4) Explain Erythroblastosis foetalis.
 - (5) What is Contact Dermatitis ?
 - (6) Write events of Infection.
- (c) Answer in short : (any 2 from 5) **10**
- (1) Structure and function of any two immune organs.
 - (2) Structure of Immunoglobulins.
 - (3) Vaccine
 - (4) Primary immunodeficiency diseases
 - (5) Types of Infection.
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