



**DH-003-001631**

Seat No. \_\_\_\_\_

**B. Sc. (Sem. VI) (CBCS) (W.E.F. 2010) Examination**

**March – 2022**

**MB-601 : Immunology & Clinical Microbiology**  
*(Old Course)*

**Faculty Code : 003**

**Subject Code : 001631**

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

[Total Marks : 70

- Instructions :** (1) All questions are Compulsory.  
(2) Figures on the right indicate total marks of the question.  
(3) Draw neat Diagrams wherever necessary.

**1 Answer specifically : 20**

- (1) Define: Herd Immunity
- (2) Enlist Primary Organs of Immune System
- (3) Define: Immunogen
- (4) What is MHC?
- (5) Define: Immunoglobulin
- (6) What is opsonisation?
- (7) Define: Antibody affinity
- (8) What are monoclonal antibodies?
- (9) Define: Autoimmunity
- (10) What is Tumor?
- (11) Define: Transplantation
- (12) What is DiGeorge's Syndrome?
- (13) What do you mean by Normal flora?
- (14) Define: Epidemic
- (15) Name any Two diseases caused by Mycobacterium.
- (16) Name the diseases caused by Neisseria.
- (17) Define: Blood
- (18) What is Serology?
- (19) Define: Precipitation reaction
- (20) What is meant by ELISA?

- 2 (A) Answer any Three : 6**
- (1) What is Adjuvant? State its functions.
  - (2) What are epitope?
  - (3) Enlist various tumor antigens
  - (4) Enlist Normal Flora of intestine
  - (5) What is meant by Blood coagulation?
  - (6) Draw a well labelled diagram of Neutrophile
- (B) Answer any Three : 9**
- (1) Differentiate between Primary and Secondary Immune response
  - (2) Discuss: Various classes of antibody
  - (3) Discuss Type - I Hypersensitivity
  - (4) Explain the causes and control of Amoebiasis
  - (5) What is RIA?
  - (6) Give an overview of Hybridoma technology
- (C) Answer any Two : 10**
- (1) Organs of Immune System
  - (2) Hybridoma technology
  - (3) Immunodeficiency
  - (4) Microbial virulence factors
  - (5) Agglutination reactions
- 3 (A) Answer any Three : 6**
- (1) Write briefly about Acquired immunity
  - (2) What is ADCC?
  - (3) Enlist various types of grafts.
  - (4) Enlist normal flora of mouth.
  - (5) What is Western blot? What is its use?
  - (6) What is Antigen processing and presentation?

(B) Answer any **Three** : **9**

- (1) Discuss factors affecting immunogenicity of a molecule.
- (2) Discuss: Basic structure of antibody molecule
- (3) Write a brief note on Graft rejection mechanism
- (4) Explain the causes and control of Malaria
- (5) Write salient features blood transfusion.
- (6) Discuss Cells of immune system

(C) Answer any **Two** : **10**

- (1) Innate Immunity.
  - (2) Antibody diversity
  - (3) Autoimmunity
  - (4) Host - Microbe interaction ships
  - (5) Blood grouping system
-