



JV-003-1015009

Seat No. _____

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

October - 2019

MB - 501 : Immunology & Medical Microbiology

(New Course)

Faculty Code : 003

Subject Code : 1015009

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

[Total Marks : 70

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

- 1 (a) Answer in short : **4**
(1) What is CALT and MALT ?
(2) Write the types of T-cells.
(3) What is APC ?
(4) What is Herd Immunity ?
- (b) Answer in short : (any **one**) **2**
(1) What is Acquired Immunity ?
(2) What are Dendritic cells ? Write their types.
- (c) Answer in short : (any **one**) **3**
(1) Explain : Vaccine.
(2) Describe Neutrophils.
- (d) Write note on : (any **one**) **5**
(1) Natural Immunity.
(2) Structure and function of any two immune organs.

- 2** (a) Answer in short : **4**
- (1) What is MHC ?
 - (2) What is Interferon ?
 - (3) What is Primary Immune Response ?
 - (4) What is CTL ?
- (b) Answer in brief : (any **one**) **2**
- (1) Which are Antigen presenting cells ?
 - (2) Define Inflammation. Write the signs of inflammation.
- (c) Answer in detail : (any **one**) **3**
- (1) Explain ; Cytokines.
 - (2) Explain : Complement Fixation Test.
- (d) Write note on : (any **one**) **5**
- (1) Phagocytosis.
 - (2) Generation of Humoral Immune Response.
-
- 3** (a) Answer in short : **4**
- (1) Define Antigen.
 - (2) What is biological function of IgE ?
 - (3) What is IgA ? What is its biological function ?
 - (4) What are Epitopes ?
- (b) Answer in brief : (any **one**) **2**
- (1) Enlist conditions to be Antigenic.
 - (2) Define Immunogenicity.
- (c) Answer in detail : (any **one**) **3**
- (1) Describe IgG.
 - (2) Explain Adjuvants.
- (d) Write note on : (any **one**) **5**
- (1) Structure of Antibody.
 - (2) Monoclonal antibody.

- 4 (a) Answer in short : 4
- (1) What is SCID ?
 - (2) Define Autograft.
 - (3) Define Tumor.
 - (4) What is 'Arthus Reaction' ?
- (b) Answer in brief : (any **one**) 2
- (1) Define Contact Dermatitis.
 - (2) What is Agammaglobulinemia ?
- (c) Answer in detail : (any **one**) 3
- (1) Explain Autoimmune haemolytic anaemia.
 - (2) Explain Immuno supression.
- (d) Write note on : (any **one**) 5
- (1) Organ Specific Autoimmune Diseases.
 - (2) Anaphylaxis.
-
- 5 (a) Answer in short : 4
- (1) Define Racial Immunity.
 - (2) Define Normal Flora.
 - (3) What is LD₅₀ Dose ?
 - (4) What is Virulence Power ?
- (b) Answer in brief : (any **one**) 2
- (1) Which factors affect normal flora of healthy human host ?
 - (2) Write the types of Infection.
- (c) Answer in detail : (any **one**) 3
- (1) Microbial adherence of pathogenic bacteria.
 - (2) Write process of Infection.
- (d) Write note on : (any **one**) 5
- (1) Explain: Normal flora of skin and mouth.
 - (2) Toxins.