



AH-625

Seat No. _____

B. Sc. (Sem. VI) Examination

March - 2019

Microbiology : Paper - MI - 601

(Immunology)

Time : 3 Hours]

[Total Marks : 70

- 1 (a) Define or Explain any **three** : **6**
- (1) Immune Response
 - (2) Antigen
 - (3) Antibody
 - (4) Immunity
 - (5) Cell mediated Immunity.
- (b) Answer any **two** of the following : **12**
- (1) Differentiate between cell mediated and humoral immunity.
 - (2) Differentiate between primary and secondary immune response.
 - (3) Discuss the organs of the immune system.
 - (4) Write a short note on types of immunity.
- 2 (a) Define or Explain any **three** : **6**
- (1) Epitope
 - (2) Monoclonal Antibody
 - (3) Labelled structure of Immunoglobulin.
 - (4) MHC molecule.
 - (5) Rh antigen.
- (b) Discuss any **two** of the following : **12**
- (1) Structure, Function and distribution of any three classes of Immunoglobulins.
 - (2) Types of Antigen.
 - (3) Production of Monoclonal antibody.
 - (4) ABO and Rh system.

- 3 (a) Discuss any **two** : 9
- (1) Immunoprecipitation
 - (2) Neutralization reactions
 - (3) Complement fixation
 - (4) Immuno bolt technique
- (b) Discuss any **two** : 9
- (1) ELISA
 - (2) Immuno Electrophoresis
 - (3) Flow cytometry
 - (4) Radio Immunoassay
- 4 (a) Define or Explain any **two** : 4
- (1) Autograft
 - (2) Auto immunity
 - (3) Immunodeficiency
 - (4) Anaphylaxis
- (b) Write short notes any **two** : 12
- (1) Types of grafts and Graft rejection.
 - (2) Type II hypersensitivity.
 - (3) Congenital Immunodeficiency.
 - (4) Auto immune disorders.
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