

M.Sc.-Biotech-IIS-(2.3)

2019

Full Marks : 40

Time : 2 hours

All questions carry equal marks.

*Answer **all** questions.*

Candidates are required to answer in their own words as far as practicable

Give labeled diagram wherever necessary.

(MOLECULAR IMMUNOLOGY)

1. What is immunity ? Describe components of innate and acquired immunity in detail.

OR

Write short notes on the following :

- (a) Dendritic Cells
- (b) Epitope analysis

2. Describe the basic structure, classes and sub classes of immunoglobulins.

OR

Write short notes on the following :

- (a) ADCC
- (b) Properties of Cytokines

3. Give an account of advanced immunological techniques studied by you.

OR

(2)

Write short notes on the following :

- (a) Complement mediated immune reactions
- (b) Biotinylation

4. What is a MHC molecule ? What are the differences between the antigen that are displayed by class I and class II MHC molecules ?

OR

Write short notes on the following :

- (a) T-cell receptors
- (b) Functions of a complement system

5. Describe mechanism and role of CD4⁺ T cells.

OR

Write short notes on the following :

- (a) Hashimoto's disease
 - (b) Graft rejection
-

(Turn over)