

M.Sc. (Part-II) Semester-III (CBCS) Examination
BIOCHEMISTRY
(Applied Immunology)
Paper-X

Time : Three Hours]

[Maximum Marks : 80

N.B. :— (1) All questions are compulsory and carry equal marks.

(2) Draw well labelled diagrams and figures wherever necessary.

1. Explain the following :

- (a) Isotype and Allotypes. 8
- (b) Paratope and Epitope. 8

OR

- (c) Structure and functions of Immunoglobulins. 8
- (d) Classification of Immunoglobulins. 8

2. Explain the cellular and molecular mechanism of Ab production. 16

OR

Explain cell mediated and humoral immune response. 16

3. Discuss the following :

- (a) Host defense mechanism against viruses. 8
- (b) Mechanism of Immune response against protozoa. 8

OR

- (c) Immune response against bacteria. 8
- (d) In vivo immunity against worms. 8

4. Explain the following :

- (a) Autoimmunity. 5
- (b) Immunodeficiency. 5
- (c) Immunostimulation. 6

OR

- (d) Immunological tolerance. 5
- (e) Psychoneuroimmunology. 5
- (f) Primary Immunodeficiency disorders. 6

5. What is Hybridoma technology ? Give its applications. 16

OR

Explain the following :

- (a) AIDS. 8
- (b) Tumor escape. 8

