

M.Sc. (Part-II) Semester-III (CBCS) Examination
MICROBIOLOGY
(Immunology)
Paper-XII

Time : Three Hours]

[Maximum Marks : 80

Note :— All questions are compulsory and carry equal marks.

1. (a) Differentiate between primary and secondary immune response. 8
- (b) Describe in detail the primary lymphoid organs. 8

OR

Explain in detail the effects of mechanisms involved in specific and non specific immunity. 16

2. Discuss the principle and applications of complement fixation tests. Describe in brief mechanism of complement fixation test. 16

OR

(a) Draw well labelled diagrams of various types of immunoglobulins. 8

(b) Explain the principle of ELISA. 8

3. Explain the various mechanisms involved in cell mediated immunity. 16

OR

Explain in detail the classical pathway of complement. 16

4. What is hypersensitivity ? Give in detail the different types of hypersensitivity reaction. 16

OR

(a) Describe in detail about MHC class molecules. 8

(b) Differentiate between genetically engineered vaccines and conventional vaccines. 8

5. Describe in detail the Hybridoma technology. 16

OR

Describe production of monoclonal antibodies and give its applications. 16

