

Exam. Code : 107404

Subject Code : 1675

B.Sc. (Bio Technology) 4th Sem. (Batch 2020-23)

IMMUNOLOGY-II

Paper : BTL-252

Time Allowed—3 Hours] [Maximum Marks—40

Note :— Attempt *five* questions in all, selecting at least **one** question from each section. The **fifth** question may be attempted from any section. All questions carry equal marks.

SECTION—A

1. Discuss T-dependent and T-independent antigens. 8
2. What are monoclonal antibodies ? Discuss various applications of monoclonal antibodies. 8

SECTION—B

3. Discuss the following :-
 - (a) ELISA
 - (b) Agglutination of pathogenic bacteria 8
4. Give the principle of hemagglutination. Discuss how hemagglutination is used in blood typing. 8

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(Contd.)

SECTION—C

5. Discuss the mechanisms of humoral and cell-mediated immune responses to viruses. 8
6. Discuss how bacteria can evade host defense mechanisms. 8

SECTION—D

7. Differentiate between active and passive immunization. 8
8. Write a note on purified macromolecules as vaccine. 8