

B.Sc. Semester - 6 (NEP-2020) Examination

March/April-2026

MIC: Immunology and Infectious Disease (Major-15)

Time: 2:00 Hours

Marks:50

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que.1 (1) Write a note on Innate immunity. (05)
(2) Discuss in brief about B cells. (05)
- OR
- (1) Explain primary lymphoid organs with examples. (05)
(2) Describe the role of macrophages and neutrophils. (05)
- Que.2 (1) Explain in brief about phagocytosis. (05)
(2) Describe the killing mechanisms employed by CTL. (05)
- OR
- (1) Differentiate between primary and secondary immune responses. (05)
(2) Write about tumor necrosis factors. (05)
- Que.3 (1) Explain the factors influencing immunogenicity of an antigen. (05)
(2) Describe the basic structure of an antibody with a neat labeled diagram. (05)
- OR
- (1) Agglutination. (05)
(2) Describe different classes of immunoglobulins and its role. (05)
- Que.4 (1) Explain the basic mechanisms involved in autoimmune disorders. (05)
(2) Write a short note on tumor immunity. (05)
- OR
- (1) Define hypersensitivity reactions & write different types with examples. (05)
(2) Write in short note on transplantation immunity. (05)
- Que.5 (1) Write about structure and functions of stem cells. (05)
(2) Natural killer cells. (05)
- OR
- (1) A brief note on clonal selection theory. (05)
(2) Primary immunodeficiency diseases. (05)
