

B.Sc. (NEP) Sem.-4 Examination**DSC-M-244****Biotechnology****April-2025****Time : 1-00 Hour]****[Max. Marks : 25**

Q.1 Write down the properties and structure of antibody and its types with functions in detail with diagram. 10

OR

Q.1 (A) Write any two in vitro Ag-Ab reactions with illustrations. 5

(B) Write down the properties and factors affecting immunogenicity. 5

Q.2 Write a detail note on central and peripheral organs of immune system. 10

OR

Q.2 (A) What is the role of complement in adaptive and innate immunity? 5

(B) Compare and contrast the key features of innate immunity and adaptive immunity. 5

Q.5 Answer the following (any five out of six) – 05

1. What are NK cells?
 2. What is the difference between B&T lymphocytes?
 3. Explain the role of the thymus in generating adaptive immune response.
 4. What is the importance of macrophage and dendritic cells?
 5. Differentiate between Monoclonal and polyclonal antibodies.
 6. Name the antibody found in granular secretion.
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