

**B.Sc. Semester - 5 (Remedial) (CBCS) Examination**  
**March/April-2023 (NEW COURSE)**  
**Immunology and Medical Microbiology(Core)**

**Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
  2. Figures to the right indicate marks.
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**Q.1****(A) Give specific answers. (04)**

1. Define: Null cells.
2. Full form of CALT.
3. Enlist phagocytic cells.
4. Write the function of Bone Marrow.

**(B) Answer in Brief. (Any one out of two) (03)**

1. Structure and functions of thymus.
2. Explain: Specific Immunity

**(C) Write a Note on. (Any one out of two) (07)**

1. Describe in brief about types of immunity.
2. Structure, functions and properties of Peripheral lymphoid.

**Q.2****(A) Give specific answers. (04)**

1. What is Immunity?
2. The branch of biology involved in the study of immune systems in all organisms is called\_\_\_\_\_.
3. Salivary amylase does not act as a protecting barrier for the body surface? (True/False)
4. Define: Plasma cells.

**(B) Answer in Brief. (Any one out of two) (03)**

1. Difference between primary and secondary Immune Response.
2. Discuss: Phagocytosis and Complement system.

**(C) Write a Note on. (Any one out of two) (07)**

1. Detail note on Cell Mediated Immune Response
2. Antigen processing and presentation.

**Q.3****(A) Give specific answers. (04)**

1. What is immunogenicity?
2. Antigen binding sites of an immunoglobulin are located in Fab regions of the antibody. (True/False)
3. Which antibody mediates Type I hypersensitivity reaction?
4. Define: Epitopes.

**(B) Answer in Brief. (Any one out of two) (03)**

1. Difference between Monoclonal Antibody and polyclonal antibody.
2. Write the overview Adjuvant and Haptens.

**(C) Write a Note on. (Any one out of two) (07)**

1. Write a brief about Immunoglobulin Classes.
2. Short note on: Agglutination.

**Q.4****(A) Give specific answers.****(04)**

1. Write two name of autoimmune disease.
2. Which type of hypersensitivity reaction is mediated via IgG and IgM binding to self-antigens and marking them out to the body for destruction?
3. Type IV of hypersensitivity reaction is known as a delayed hypersensitivity reaction. (True/False)
4. \_\_\_\_\_ substance is used as a negative control in the skin prick test? (Saline/Histamine)

**(B) Answer in Brief. (Any one out of two)****(03)**

1. Immunodeficiency Diseases.
2. Give the basic idea about Transplantation immunity.

**(C) Write a Note on. (Any one out of two)****(07)**

1. Detail notes on: Immune complex mediated Hypersensitivity.
2. Autoimmune diseases - cause and symptoms.

**Q.5****(A) Give specific answers.****(04)**

1. Define: Toxigenicity,
2. Write full name of LPS.
3. Explain: Opportunistic infections.
4. PCR is also use for diagnosis of disease. (True/False)

**(B) Answer in Brief. (Any one out of two)****(03)**

1. Short not on : Immunofluorescence
2. Write the short note on importance of normal microflora.

**(C) Write a Note on. (Any one out of two)****(07)**

1. Short note on: Transmission of infection, Pathophysiologic effects of LPS.
2. Explain: Agglutination based tests.

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