

B.Sc. Semester - 5 (CBCS) Examination**Oct/Nov. - 2022(Old 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. Answer the following. (Any One) (07)
1. Write a brief note on Neutrophil, Eosinophil and Basophil.
 2. Structure, functions and properties of T cell.
- B. Answer the following. (Any One) (04)
1. Explain: Acquired immunity.
 2. Write short note on any one Immune Organs.
- C. Answer the following (Any Three) (03)
1. Explain: Blood
 2. Full form of MALT
 3. Define: Macrophage
 4. Write the role of Mast cell.
 5. Neutrophils are neutral in nature (True/False)

Q.2

- A. Answer the following. (Any One) (07)
1. Short note on phagocytosis.
 2. Give the brief note on Interleukin, interferon and Chemokines.
- B. Answer the following. (Any One) (04)
1. Difference between Inflammation and Opsonisation.
 2. How CTL and NK cells help in defence mechanism?
- C. Answer the following (Any Three) (03)
1. Define: Antibody.
 2. Digestive system protects our body against disease-causing microbes. (True/False)
 3. Explain: Memory cells
 4. Full form of MHC.
 5. Role of NK cell in immune system.

Q.3

- A. Answer the following. (Any One) (07)
1. Factors influencing Immunogenicity
 2. Write classes of Immunoglobulin with application
- B. Answer the following. (Any One) (04)
1. Explain: Epitopes and Haptens
 2. Techniques and application of monoclonal antibodies.
- C. Answer the following (Any Three) (03)
1. Define: Antigenicity.
 2. What is Adjuvants?
 3. Explain: Polyclonal antibody
 4. _____ is pentameric immunoglobulin in nature.
 5. IgM is the most effective antibody. (True/False)

Q.4

- A. Answer the following. (Any One) (07)
1. Detail notes on: Type II Hypersensitivity.
 2. Write brief about autoimmune diseases
- B. Answer the following. (Any One) (04)
1. Enlist four name of Autoimmune diseases
 2. Justify: Tumor immunity is directly act as dysfunctional immunity
- C. Answer the following (Any Three) (03)
1. Define: Anaphylaxis
 2. Short height is type of autoimmune disease. (True/False)
 3. Explain: SCID.
 4. Sudden change in temperature directly effect on autoimmune disease. (True/False)
 5. _____ is secreted by mast cell.

Q.5

- A. Answer the following. (Any One) (07)
1. Detail note on Pathogenicity
 2. Explain in detail: Microbial adherence
- B. Answer the following. (Any One) (04)
1. Write in short: Microbial virulence factors.
 2. Write basic concept of Species and Racial natural resistance.
- C. Answer the following (Any Three) (03)
1. Define: Virulence
 2. What is normal flora?
 3. Within how many days after birth a stable flora develops?
 4. Animals that are contaminated of germs are said to be gnotobiotic. (True/False)
 5. *Staphylococcus* normal microflora on skin. (True/False)
