

B.Sc. Semester - 5 (CBCS) Examination**Oct/Nov. - 2023(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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- Que.1(A) Answer the following. (any one out of two) (07)
1. Give a detail note on acquired immunity.
 2. Structure, functions and properties of Bone Marrow.
- Que.1(B) Attempt any one. (04)
1. Structure of Lymph Node.
 2. Function of T cell and B cell.
- Que.1(C) Attempt any three. (03)
1. Full form of GALT.
 2. Write one example of phagocytic cell.
 3. Mention characters of immune system.
 4. Define: Naïve cell.
 5. Define: Degranulation.
- Que.2(A) Answer the following. (any one out of two) (07)
1. Structure and properties of MHC class I molecule.
 2. Killing Mechanisms by CTL and NK cells.
- Que.2(B) Attempt any one. (04)
1. Secondary Immune Response.
 2. Function of Cytokines.
- Que.2(C) Attempt any three. (03)
1. Full form of ADCC.
 2. Cardinal sign of inflammation.
 3. CD8⁺ T cells bear a receptor that is specific for class I MHC molecules (True/False).
 4. Full form of HLA.
 5. MHC II is undergoing endogenous antigen processing (True/False).
- Que.3(A) Answer the following. (any one out of two) (07)
1. Class of Immunoglobulin.
 2. Factors influencing Immunogenicity.
- Que.3(B) Attempt any one. (04)
1. Polyclonal antibody.
 2. Epitops.
- Que.3(C) Attempt any three. (03)
1. One example of haptens.
 2. Define: Immunogenicity.
 3. Mention roll of adjuvant.
 4. IgE antibody is also known as regain type antibody (True/False).
 5. Different clones are used to make Monoclonal Antibody (True/False).
- Que.4(A) Answer the following. (any one out of two) (07)
1. Type-II hypersensitivity.
 2. Autoimmune diseases
- Que.4(B) Attempt any one. (04)
1. Allograft and Xenograft.
 2. Overview of Tumor immunity.

- Que.4(C) Attempt any three. (03)
1. Immune complex mediated Hypersensitivity is also known as.....Hypersensitivity.
 2. Define: Autoantibody.
 3. IgE Antibodies Are Responsible for Type I Hypersensitivity (True/False).
 4. Full fom: GM-CSF
 5. Type-IV Hypersensitivity is also known as.....Hypersensitivity.
- Que.5(A) Answer the following. (any one out of two) (07)
1. Microbial virulence factors
 2. Natural Resistance: Species, Racial, Individual, and Internal defence.
- Que.5(B) Attempt any one. (04)
1. Process of Infection.
 2. Importance of normal flora.
- Que.5(C) Attempt any three. (03)
1. Define: Virulence
 2. Define: Pathogenicity
 3. Mention one example of Exotoxin.
 4. Mention one example of Microbial adherence.
 5. *Micrococcus spp.* can serve as a normal skin flora (True/False).
