

B.Sc. Semester - 5 (Remedial) (CBCS) Examination**March/April-2024 (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) Provide an in-depth overview of Granulocytic Cells.
 - 2) Give the concise explanation of the primary and secondary lymphoid organs in the immune system.
- Que-1 (B) Attempt any one. (Out of Two) (04)
- 1) Elaborate on the concept of Innate Immunity.
 - 2) Comparing Naturally Acquired and Artificially Acquired Immunity.
- Que-1 (C) Attempt any three. (Out of Five) (03)
- 1) List phagocytic cells.
 - 2) Give a definition for Cell.
 - 3) Expand the abbreviation MALT.
 - 4) B cell are synthesis in _____. (Bone Marrow, Thymus).
 - 5) Write the name of two disease in which Neutrophil count is increase.
- Que-2 (A) Answer the following. (Any one Out of two) (07)
- 1) Brief explanation of phagocytosis.
 - 2) Provide a briefing overview of Interleukins, Interferons, and Chemokines.
- Que-2 (B) Attempt any one. (Out of two) (04)
- 1) Explain the role of CTL and NK cells in the defence mechanism.
 - 2) Highlight the distinctions between Inflammation and Opsonization.
- Que-2 (C) Attempt any three. (Out of Five) (03)
- 1) Expand the acronym MHC.
 - 2) What does the term Immunity mean?
 - 3) Provide a definition for Phagocytosis.
 - 4) Write the difference between class MHC I and MHC II complex.
 - 5) The field of biology that examines immune systems in all organisms is known as _____.
- Que-3 (A) Answer the following. (Any one Out of two) (07)
- 1) Brief Overview of Factors influencing Immunogenicity.
 - 2) Elucidate: Classes of Immunoglobulins.
- Que-3 (B) Attempt any one. (Out of two) (04)
- 1) Provide an overview of Adjuvants and Epitopes.
 - 2) Highlighting the Contrast: Monoclonal Antibodies vs. Polyclonal Antibodies.
- Que-3 (C) Attempt any three. (Out of Five) (03)
- 1) Elaborate on Polyclonal Antibodies.
 - 2) What does the term immunogenicity mean?
 - 3) Which antibodies is predominantly present in tears, saliva and mucous?
 - 4) _____ immunoglobulins makes the largest percentage in breast milk? (IgA, IgG)
 - 5) Transplanted graft may be rejected due to cell-mediated immune response. (True/False).
- Que-4 (A) Answer the following. (Any one Out of two) (07)
- 1) In-Depth Discussion: Type I Hypersensitivity.
 - 2) Hypersensitivity Involving Cytotoxic Reactions.

- Que-4 (B) Attempt any one. (Out of two) (04)
- 1) Write a comprehensive overview of Autoimmune Diseases.
 - 2) Offer a fundamental understanding of Transplantation Immunity.
- Que-4 (C) Attempt any one. (Out of two) (03)
- 1) Write a comprehensive overview of Autoimmune Diseases.
 - 2) Offer a fundamental understanding of Transplantation Immunity.
- Que-5 (A) Answer the following. (Any one Out of two) (07)
- 1) Comprehensive Discussion on Pathogenicity.
 - 2) Provide a thorough explanation of Virulence and infection.
- Que-5 (B) Attempt any one. (Out of two) (04)
- 1) Brief overview: Microbial virulence factors.
 - 2) Highlight the Significance of Normal Microflora in a Brief Note.
- Que-5 (C) Attempt any three. (Out of Five) (03)
- 1) What is External and Internal defence?
 - 2) Definition for Microbial adherence.
 - 3) Explain Racial in terms of Natural Resistance.
 - 4) Write two microorganism of skin normal flora.
 - 5) Animals that are free of germs are said to be gnotobiotic. (True/False)
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