

B.Sc. Semester - 5 (CBCS) Examination**Oct/Nov - 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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- Que.1(A) Give specific answer. (04)
1. Define: Immunity
 2. Full form of NK cells.
 3. What is phagocytosis?
 4. Write the function of Basophil.
- Que.1(B) Answer in brief. (any one out of two) (03)
1. Structure and functions of Stem cell.
 2. Explain: Innate Immunity
- Que.1(C) Write a note on. (any one out of two) (07)
1. Describe in brief about B Cell maturation.
 2. Structure, functions and properties of Central lymphoid.
- Que.2(A) Give specific answer. (04)
1. Write the full form of MHC.
 2. Define: Immune Response
 3. Write the signs of Inflammation.
 4. Define: Cytokines.
- Que.2(B) Answer in brief. (any one out of two) (03)
1. Difference between Plasma cells and Memory cells.
 2. Discuss: Opsonisation and Complement system.
- Que.2(C) Write a note on. (any one out of two) (07)
1. Detail notes on T cell activation.
 2. Write the overview of Interleukin and Interferon.
- Que.3(A) Give specific answer. (04)
1. What is Antibody?
 2. The most effective antibody is IgA. (True false)
 3. Second most abundant antibody is _____.
 4. Define: Haptens.
- Que.3(B) Answer in brief. (any one out of two) (03)
1. Short note on Clonal Selection Theory.
 2. Draw the basic structure of Antibody.
- Que.3(C) Write a note on. (any one out of two) (07)
1. Detailed note on types of antibodies.
 2. Short not on: Precipitation.
- Que.4(A) Give specific answer. (04)
1. Define: Immunodeficiency
 2. What is Hypersensitivity?
 3. Why does an AIDS patient suffer from many infections?
 4. Write the two name of Immunodeficiency Diseases.

- Que.4(B) Answer in brief. (any one out of two) (03)
1. Tumor immunity.
 2. Transplantation immunity.
- Que.4(C) Write a note on. (any one out of two) (07)
1. Detail notes on: IgE mediated Type I Hypersensitivity.
 2. Antibody- mediated cytotoxic (Type II) Hypersensitivity.
- Que.5(A) Give specific answer. (04)
1. Define: Infection,
 2. Write full name of PCR.
 3. What is nosocomial infections?
 4. Explain: normal microflora.
- Que.5(B) Answer in brief. (any one out of two) (03)
1. Short note on: Pathogen and Pathogenicity
 2. Write the short note on normal microflora of gastrointestinal tract.
- Que.5(C) Write a note on. (any one out of two) (07)
1. Short note on: Collection, transport and culturing of clinical samples.
 2. Explain: ELISA.
