

B.Sc. Semester - 5 (Remedial) (CBCS) Examination
Feb/Mar. -2021 (NEW COURSE)
Immunology and Medical Microbiology(Core)

Time: 1:30 Hours**Marks: 42****Instructions:**

1. Figures to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any three of the following questions.
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Q.1

- A. Answer the following. (Any One) (07)
1. Write a detailed note on Granulocytic Cells.
 2. Describe in brief about primary and secondary lymphoid organ of immune system.
- B. Answer the following. (Any One) (04)
1. Explain: Innate Immunity.
 2. Naturally Vs. Artificially Acquired Immunity.
- C. Answer the following (Any Three) (03)
1. Define: Sebum
 2. Full form of MALT
 3. Define: Hematopoiesis
 4. Write four cardinal signs of inflammation.
 5. Apoptosis leads to death of injured cells and may induce a local inflammatory response. (True/False)

Q.2

- A. Answer the following. (Any One) (07)
1. Short note on Structure and properties of class I and II MHC.
 2. Discuss: Two Signals (Co-stimulation) are essential for T-helper cell activation.
- B. Answer the following. (Any One) (04)
1. Difference between Humoral Immune Response and Cell Mediated Immune Response
 2. Explain: Phagocytosis play important role in immune response.
- C. Answer the following (Any Three) (03)
1. Define: Phagocytosis.
 2. Full form of PAMPs.
 3. Explain: Superantigens
 4. Functions of Chemokines.
 5. The thymus is a highly organized lymphoid organ located above the heart. (True/False)

Q.3

- A. Answer the following. (Any One) (07)
1. Write a brief about Immunoglobulin Classes.
 2. Explain various consequences of Antigen-Antibody interaction.
- B. Answer the following. (Any One) (04)
1. Explain: Basic structure of Antibody
 2. Techniques and application of Monoclonal antibodies.
- C. Answer the following (Any Three) (03)
1. Define: Epitopes.
 2. What are Adjuvants?
 3. Explain: Polyclonal antibody
 4. _____immunoglobulin molecule able to cross the placenta.
 5. IgD is the principal one found in secretions such as milk. (True/False)

Q.4

- A. Answer the following. (Any One) (07)
1. Detail notes on: Type I Hypersensitivity.
 2. Cytotoxic reaction-based Hypersensitivity
- B. Answer the following. (Any One) (04)
1. Autoimmune diseases
 2. Give the basic idea about Transplantation immunity
- C. Answer the following (Any Three) (03)
1. Define: Systemic anaphylaxis
 2. Type I diabetes mellitus is Autoimmune disease. (True/False)
 3. Full form of SCID.
 4. Name two attenuated strains of bacteria have been used to boost tumor immunity.
 5. Histamine is secreted by _____ cell.

Q.5

- A. Answer the following. (Any One) (07)
1. Types of ELISA
 2. Explain in detail: Host pathogen interaction is highly variable for various type of infection.
- B. Answer the following. (Any One) (04)
1. Normal microflora of the human body
 2. Write short note on: Agglutination based tests.
- C. Answer the following (Any Three) (03)
1. Define: Invasiveness
 2. What is bacteriocins?
 3. Full form of RIA
 4. Explain: Hemagglutination
 5. *Proteus vulgaris* normal microflora of urogenital tract. (True/False)
