

B.Sc. Semester - 5 (CBCS) Examination**Oct/Nov. - 2021(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 questions in details. (Any One Out of Two)** (07)
1. Explain in detail about types of immunity.
 2. Explain in detail about Bone marrow.
- Q.1(B) Answer the following questions in Brief. (Any One Out of Two)** (04)
1. Explain types of WBCs.
 2. Explain about GALT.
- Q.1(C) Answer the following question shortly.** (03)
1. Full form of MALT.
 2. What is acquired immunity.
 3. Give a one function of NK cells.
- Q.2(A) Answer the following questions in details. (Any One Out of Two)** (07)
1. Explain about class I and II MHC.
 2. Explain in detail about complement system.
- Q.2(B) Answer the following questions in Brief. (Any One Out of Two)** (04)
1. Explain about opsonization.
 2. Explain about interferon.
- Q.2(C) Answer the following question shortly.** (03)
1. Define phagocytosis.
 2. What is Primary response in immunity.
 3. Give two examples of antigen presenting cells.
- Q.3(A) Answer the following questions in details. (Any One Out of Two)** (07)
1. Explain basic structure of antibody.
 2. Explain in detail about clonal selection theory.
- Q.3(B) Answer the following questions in Brief. (Any One Out of Two)** (04)
1. Explain about IgA functions.
 2. Explain briefly about mono clonal antibody.
- Q.3(C) Answer the following question shortly.** (03)
1. Define antigenicity.
 2. What is hapten.
 3. Define epitopes.

- Q.4(A) **Answer the following questions in details. (Any One Out of Two)** (07)
1. Explain about type I hypersensitivity.
 2. Explain in detail any one immunodeficiency diseases.
- Q.4(B) **Answer the following questions in Brief. (Any One Out of Two)** (04)
1. Explain briefly about Rheumatoid arthritis.
 2. Explain briefly about transplantation immunity.
- Q.4(C) **Answer the following question shortly.** (03)
1. Define hypersensitivity.
 2. What is autoimmunity?
 3. What is Coeliac diseases?
- Q.5(A) **Answer the following questions in details. (Any One Out of Two)** (07)
1. Explain about process of infection and pathogenesis.
 2. Explain in detail any two normal flora of human.
- Q.5(B) **Answer the following questions in Brief. (Any One Out of Two)** (04)
1. Explain brief microbial adherence.
 2. Explain briefly about microbial virulence factor.
- Q.5(C) **Answer the following question shortly.** (03)
1. Define Natural Resistance.
 2. What is external defense?
 3. Give two examples of normal flora of mouth in human.
