

B.Sc. Semester - 5 (CBCS) Examination**December -2020 (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.1A Objective type questions 4

1. Define Natural Passive acquired immunity and give example.
2. What is meant by Herd Immunity ?
3. Give full forms of : MALT, APC, PMNL
4. Which characteristics of skin make it hostile for external microorganisms ?

Q.1B Answer in Brief (any one out of two)..... 3

1. Explain Anatomical and Physiological barriers of Innate Immunity.
2. Discuss primary lymphoid organs.

Q.1C Write a Note on (any one out of two)..... 7

1. Write a note on acquired immune response in detail.
2. Give a detailed account on cells of immune system.

Q.2A Objective type questions 4

1. What is Rubor, Dolor and Calor ?
2. Where do we find MHC Class II ?
3. What are interferons ?
4. Define : Opsonization

Q.2B Answer in Brief (any one out of two)..... 3

1. Write a short note on Inflammatory Response.
2. Secondary immune response is quicker and larger than primary one. - Comment

Q.2C Write a Note on (any one out of two)..... 7

1. Describe the role of Cytokines in immune system.
2. Write a note on activation of Humoral Immune Response.

Q.3A Objective type questions 4

1. What are Freund's Complete adjuvants ?
2. How does IgM display steric hindrance ?
3. Give full forms of : HAT and CDR
4. What is hemagglutination ?

Q.3B Answer in Brief (any one out of two)..... 3

1. Discuss antigenic determinants.
2. Draw a labeled diagram of Ig G and Ig A

Q.3C Write a Note on (any one out of two).....	7
1. Explain the production and application of Monoclonal antibodies.	
2. Write a note on antigen antibody interactions.	
Q.4A Objective type questions	4
1. Name the factors responsible for secondary immunodeficiency.	
2. What are effector molecules in Type 1 Hypersensitivity ?	
3. What are TAA and TSA ? Give examples.	
4. Give names of any three immunosuppressive drugs.	
Q.4B Answer in Brief (any one out of two).....	3
1. Explain primary immunodeficiency.	
2. Give an account on Erythroblastosis foetalis.	
Q.4C Write a Note on (any one out of two).....	7
1. Write a detailed note on autoimmune diseases.	
2. Explain types of organ transplants and elaborate HVG and GVH.	
Q.5A Objective type questions	4
1. Name several natural inhabitants of human eye.	
2. What is LD 50 and MLD?	
3. Write principle of Sandwich ELISA	
4. What are Nosocomial Infections?	
Q.5B Answer in Brief (any one out of two).....	3
1. How RT PCR proves to be effective diagnostic test of CoViD 19 ?	
2. Explain normal flora of skin.	
Q.5C Write a Note on (any one out of two).....	7
1. Explain in detail – Specimen collection and transportation.	
2. Discuss modes of transmission of pathogens in detail.	
