

B.Sc. Semester - 5 (CBCS) Examination**December - 2020 (Old 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.

Q.1A Objective type questions 4

1. Define Artificial Passive acquired immunity and give example.
2. What is meant by Special and Racial Immunity?
3. Mention characteristics of acquired immune response.
4. Give names of secondary lymphoid organs.

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

1. Explain Functions and types of T Cells and B Cells.
2. Discuss Herd immunity.

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

1. Discuss Innate immunity in detail.
2. Give a detailed account on cells of immune system.

Q.2A Objective type questions 4

1. Define Opsonization and Phagocytosis
2. What is IL and TNF?
3. What is Erythema and Edema?
4. What is properdin pathway?

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

1. Explain Cytokines in detail.
2. Explain processing and presentation of antigen.

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

1. Write a note on Generation of Humoral Immune Response.
2. Describe Inflammatory response.

Q.3A Objective type questions 4

1. Who proposed clonal selection theory?
2. What are Haptens?
3. What is Transcytosis?
4. What is HAT selection medium?

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

1. Explain Adjuvants in brief.
2. Discuss theory of antibody diversity.

Q.3C Write a Note on (any one out of two).....	7
1. Explain factors affecting immunogenicity.	
2. Write a note on structure of Ig Classes and its elucidation.	
Q.4A Objective type questions	4
1. What is SCID and CVID?	
2. What is Arthus Reaction?	
3. What is isograft and xenograft?	
4. Give names of any three immunosuppressive drugs.	
Q.4B Answer in Brief (any one out of two).....	3
1. Explain Organ specific autoimmune diseases.	
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 type 1 Hypersensitivity	
2. Explain primary and secondary immunodeficiency	
Q.5A Objective type questions	4
1. What is streptokinase?	
2. What is hyaluronidase?	
3. What are major inhabitants of genito urinary tract?	
4. What is individual immunity?	
Q.5B Answer in Brief (any one out of two).....	3
1. Explain virulence and infection	
2. Explain normal flora of colon	
Q.5C Write a Note on (any one out of two).....	7
1. Explain in detail : Bacterial exotoxins	
2. Discuss : Natural resistance	
