

B.Sc. Semester - 5 (Remedial) (CBCS) Examination**February/March. -2020****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 : 1a Answer the following (Any one)**07**

1. Write a detailed note on types of Immunity.
2. Discuss primary and secondary lymphoid organs.

Q : 1b Attempt any one**04**

1. Explain characteristics of immune system.
2. Discuss the function of various types of T cells and APC.

Q : 1c Attempt any three**03**

1. What is Anamnesis ?
2. Define : Herd Immunity
3. What are stem cells ?
4. What is MALT ?
5. Define : Rubor and Calor.

Q : 2a Answer the following (Any one)**07**

1. Write a note on generation of cell mediated immune response.
2. Explain Structure and properties of MHC molecules.

Q : 2b Attempt any one**04**

1. Explain Opsonization process.
2. Write a note on cytokines.

Q : 2c Attempt any three**03**

1. Write function of APC.
2. Write function of NK cells.
3. What is secondary immune response ?
4. Define : Complement system
5. Mention symptoms of Inflammation.

Q : 3a Answer the following (Any one)**07**

1. Explain factors affecting immunogenicity of an antigen.
2. Write an account on types of immunoglobulins.

Q : 3b Attempt any one**04**

1. Explain Adjuvants
2. Describe clonal selection theory.

Q : 3c Attempt any three**03**

1. What is hybridoma technology ?
2. What are incomplete antigens ?
3. Who proposed clonal selection theory ?
4. Draw structure of IgG.
5. What is the contribution of Kohler and Milstein in Immunology ?

Q : 4a Answer the following (Any one)	07
1. Describe mechanism of Type 1 and Type 3 Hypersensitivity in detail.	
2. Write an essay on Autoimmune diseases.	
Q : 4b Attempt any one	04
1. Discuss types of grafts and give names of immunosuppressive drugs.	
2. Discuss Primary immune deficiency diseases.	
Q : 4c Attempt any three	03
1. What are TAA and TSA ?	
2. What is Erythroblastosis Foetalis ?	
3. What GVH and HVG ?	
4. Give clinical name of Type IV allergy.	
5. Define : Xenografting	
Q : 5a Answer the following (Any one)	07
1. Explain normal flora of Skin, Eye and Genitourinary tract.	
2. Write a note on Exotoxins	
Q : 5b Attempt any one	04
1. Describe Microbial adherence.	
2. What is Special and Racial Immunity ?	
Q : 5c Attempt any three	03
1. What is Streptokinase ?	
2. What is Gnotobiotic animal ?	
3. Mention predominant inhabitants of Jejunum and Ileum.	
4. What is bacteremia ?	
5. Define : MLD	
