

## B.Sc. Sem.-6 Examination

## 309 - Biochemistry

## (Immunology)

Time : 2-30 Hours]

April 2024

[Max. Marks : 70

- Instructions :** (1) Figures to the right indicate Full Marks of the questions.  
(2) Attempt all questions.

- 1 Explain any 7 factors for invasiveness. 14  
OR
- 1 How and why portal of entry is important for microbes? 14
- 2 ( a ) Short notes on : Phagocytosis 7  
( b ) Explain Types of Antigens. 7  
OR
- 2 ( a ) Short notes on : Cell mediated Immunity. 7  
( b ) Explain general structure of antibody. (Y-shape) 7
- 3 Explain Types and principles of "ELISA". 14  
OR
- 3 ( a ) Short notes on : Active and Passive Immunity. 7  
( b ) Explain - RIA. 7
- 4 Explain in detail - Types of "Vaccines". 14  
OR
- 4 ( a ) Short notes on : Transplantation. 7  
( b ) Type - I, II Hypersensitivity reactions - Explain. 7
- 5 Answer the following questions (any seven) : 14
- (1) What are types/class of "Craft".
  - (2) Name 2 Serology tests.
  - (3) Name types of complement activation pathways.
  - (4) What is  $C_3$  convertase?
  - (5) What is MAC complex made up of?
  - (6) Define - Autoantigen.
  - (7) Name 5 types of Antibodies.
  - (8) Give effect of lysozyme
  - (9) Give effect of Basic Peptide.
  - (10) Give function of Mast cells.
  - (11) Define Secondary lymphnode.
  - (12) Why it is named - Hybridoma Technique?
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