

Seat No.

HO-003-1132002

M. Sc. (Biotech) (Sem. II) (CBCS) Examination

April - 2023

BT - 207 : Immunology

Faculty Code : 003 Subject Code : 1132002

Time : $2\frac{1}{2}$ Hours / Total Marks : 70

- 1 Answer the following : (any seven out of ten, each of 2 marks) 14
 - (1) What is functions of lymph node?
 - (2) Write different signs of inflammatory response.
 - (3) What is lattice hypothesis? How does it explain antigenantibody complex formation?
 - (4) What are polyclonal antibodies?
 - (5) What is the biological function of complement C3?
 - (6) What is lymphocyte trafficking?
 - (7) What is HLA typing?
 - (8) What are the biological significances of MHC-III molecules?
 - (9) What is Arthus's reaction?
 - (10) What are the consequences of clonal selection?
- 2 Answer the following : (any two out of three, each of 7 marks) 14
 - (a) Enlist various cells of the immune system and describe them in brief.
 - (b) Describe three major events in the inflammatory response.
 - (c) Discuss specific host defense mechanisms of innate immunity.

HO-003-1132002]

[Contd...

- **3** Answer the following : (each of 7 marks)
 - (a) Highlights the principle and application of Radio immunoassay.
 - (b) Explain ELISA as an immunologic technique.

OR

- **3** Answer the following : (each of 7 marks) **14**
 - (a) Write an essay on structure and functions of immunoglobulin.
 - (b) Write an essay on antibody diversity.
- 4 Answer the following : (each of 7 marks)
 - (a) Briefly discuss graft rejection mechanism.
 - (b) Discuss in detail the structure and functions of various classes of MHC molecules.
- 5 Answer the following : (any two out of four, each of 7 marks) 14
 - (a) Write an essay on mechanism of hypersensitive reactions.
 - (b) What is autoimmunity? Explain giving any one autoimmune disease as an example.
 - (c) Briefly discuss-AIDS.
 - (d) Explain type-I hypersensitivity.

14

14