LJ-334

M.Sc. Biotechnology

3rd Semester Examination, July-Dec., 2020

Paper - II

Biology of Immune System

Time : Three Hours] [*Maximum Marks* : 80

[*Minimum Pass Marks* : 16

Note : Answer from **all** the Units and Question Number 1 is compulsory. All questions carry equal marks.

1. Describe the following :

(*a*) Antibody structure

(*b*) Hematopoiesis and differentiation

(*c*) Autoimmunity

(*d*) AIDS

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Unit-I

2. Explain antigen-antibody interactions.

OR

Write short notes on the following :

(*a*) Acquired immunity

(*b*) Structure of lymphoid organs

Unit-II

3. Define complement system and classify them with their mechanisms.

OR

Write short notes on the following :

(*a*) Major histocompatibility complex

(*b*) Cells of immune system

Unit-III

4. Discuss in detail antigen processing and presentation.

OR

Write short notes on the following :

(*a*) Hypersensitivity

(*b*) Cell-mediated cytotoxicity

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Unit-IV

5. Explain hybridoma technology and monoclonal antibodies.

OR

Describe general concept and application of transplantation.

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