



ED-643

M.Sc. 3rd Semester
Examination, March-April 2021

BIOTECHNOLOGY

Paper - X

Biology of Immune System

Time : Three Hours] [Maximum Marks : 80
[Minimum Pass Marks : 16

Note : Answer **all** question in which Question No. 1 is compulsory. All questions carry equal marks.

1. Write short notes on the following :
 - (a) Mast cell
 - (b) TCR
 - (c) Humoral response
 - (d) Monoclonal antibodies

Unit-I

2. Explain organization and structure of lymphoid organs.

OR

Discuss about phylogeny of immune system.

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(Turn Over)

(2)

Unit-II

3. Explain structure and functions of antibody.

OR

Write note on complement system.

Unit-III

4. Discuss about Autoimmunity.

OR

Explain about Immunological tolerance.

Unit-IV

5. Explain about transplantation.

OR

Write short notes on the following :

- (a) Severe combined immuno-deficiency disorder
(b) Infectious agent