

TDC (CBCS) Even Semester Exam., 2022

BIOTECHNOLOGY

( Honours )

( 4th Semester )

Course No. : BTCHCC-402T

( Immunology )

Full Marks : 50

Pass Marks : 20

Time : 3 hours

*The figures in the margin indicate full marks  
for the questions*

SECTION—A

Answer any *ten* of the following questions : 2×10=20

1. Differentiate between acquired and innate immunity.
2. Define antibodies.
3. Give the functions of cytotoxic T-cells.

4. What are idiotypes?
5. Define allelic exclusion.
6. What is clonal selection theory?
7. Define major histocompatibility complex.
8. Differentiate between class I and class II MHC molecules.
9. What are the salient features of acquired immunity?
10. State a pathogen defense strategy.
11. What is the full form of AIDS?
12. Give two examples each of systemic and organ-specific autoimmune diseases.
13. What is an adjuvant? Give an example.
14. Give two properties of cytokines.
15. Differentiate between active and passive immunizations.

## SECTION—B

Answer any five of the following questions : 6×5=30

16. What are the different isotypes of antibodies? Give the structure and functions of IgG.
17. Differentiate between humoral and cell-mediated immune response.
18. Give a brief account of immunoglobulin gene expression and rearrangement of heavy chain.
19. What are the different mechanisms that account for the genetic basis of antibody diversity?
20. Differentiate between antigen processing of exogenous and endogenous antigens.
21. Give the molecular structure of MHC class I and class II molecules.
22. Write short notes on the following :
  - (a) Graves' disease
  - (b) Myasthenia gravis
  - (c) Systemic lupus erythematosus

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( Turn Over )

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23. Write a brief account on HIV infection and AIDS.
24. Write short notes on the following :
  - (a) Functions of cytokines
  - (b) DNA vaccines
25. Write a brief account on different types of ELISA.

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