PG Even Semester Examination, September, 2023

BIOTECHNOLOGY

(2nd Semester)

Course No: BTYCC-201
(Immunology)

FM: 70
Pass Marks : 28
Time: 3 Hours

The figures in the right margin indicate full marks for the question

1. (a) Define : 3x2=6

   (i) Passive immunity

   (ii) Acquired immune response

   (b) Write a brief note on non-specific host defenses. 8

Or

2. (a) State the various functions of macrophages. 8

   (b) Briefly discuss the role of the spleen and lymph modes as secondary lymphoid organs. 6

3. (a) Differentiate between humoral and cell-mediated immunity. 8

   (b) Name the B Cell and T Cell markers. 6

Or

4. (a) Chalk out the classical complement activation pathway. 6

(b) State the properties and functions of cytokines. 8

5. (a) Define : 3x2=6

(i) Opsonization

(ii) ADCC

(iii) MHC

(b) Briefly write about the structure and function of IgG. 8

Or

6. (a) Differentiate between the antigen processing and presentation of exogenous and endogenous antigens. 7

(b) How is antibody diversity generated? 7

7. What is hypersensitivity? Discuss type 1 hypersensitivity reactions with the help of suitable examples. 2+12=14

Or

8. What are systemic and organ-specific autoimmune disease? Discuss the development and symptoms of multiple sclerosis. 5+9=14

9. Write short notes on : 7x2=14

(i) ELISA

(ii) Radioimmunoassay

Or

10. Write brief accounts on : 7x2=14

(a) Agglutination reaction

(b) Immunoelectrophoresis

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