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6 SEM TDC DSE ZOO (CBCS) 3 (H)

2025

(May)

ZOOLOGY

(Discipline Specific Elective)

(For Honours)

Paper : DSE-3

(**Immunology**)

Full Marks : 53

Pass Marks : 21

Time : 3 hours

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

1. Fill in the blanks with appropriate word(s) :

1×5=5

(a) Mast cells release the potent inflammatory chemical called ____.

(b) Thymus secretes ____ lymphocytes.

(c) ____ is a type of blood cell that serves primarily as phagocyte.

(2)

- (d) The end product of the complement system is ____.
- (e) The first antibody released in primary response is ____.

2. Distinguish between (any *two*) : 2×2=4

- (a) Primary and Secondary immune response
- (b) Class I and Class II MHC molecules
- (c) B-cell epitopes and T-cell epitopes
- (d) Antigenicity and Immunogenicity

3. Write short notes on (any *three*) : 4×3=12

- (a) Adjuvants and their effects
- (b) Haptens
- (c) RIA
- (d) Hybridoma technology
- (e) Various types of vaccine

4. Define immunology. Describe the cells and organs involved in immune system. 1+7=8

Or

Discuss in brief about the early theories of immunology.

8

(3)

5. Write an explanatory note on active and passive immunity with examples. 4+4=8

Or

Define immune dysfunctions. Discuss AIDS as an auto-immune disorder. 1+7=8

6. What is immunoglobulin? Describe briefly the structure of different types of immunoglobulin with suitable diagrams. 1+7=8

Or

Write an explanatory note on various types of antigen-antibody interaction. 8

7. Discuss the endogenous and exogenous pathways of antigen processing and presentation. 8

Or

What is complement system? What are its components? Describe briefly about the classical pathway of complement activation. 1+2+5=8

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