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

2023

(May/June)

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:				
	(a)	The ability of an organism to resist pathogenic infections is called			
	(b)	cytokines are released in response to virus infections.			
	(c)	is involved in primary immune reaction.			
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(d)	The	specificity	of an	antibody	is	due	to
		_•					

- (e) B-cells are activated by ____.
- 2. Write short notes on (any three): $4\times3=12$
 - (a) Organs of the immune system
 - (b) MHC molecules
 - (c) AIDS
 - (d) Hybridoma technology
- 3. Write on briefly the following (any three):

 $4 \times 3 = 12$

- (a) Components and pathways of complement activation
- (b) Factors that influence immunogenicity
- (c) Vaccines and their types
- (d) Adaptive immunity
- 4. What are immunoassays? Describe ELISA with suitable illustrations. 2+10=12

Or

What are immunoglobulins and their types?

Discuss briefly the process of antigenantibody interactions.

2+4+6=12

5. Explain the process of cell-mediated and humoral immunity. Write about auto-immunity with suitable example. 6+3+3=12

Or

What are cytokines? List the different types of cytokines and mention their functions.

2+10=12

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