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

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· (Turn Over)

(d) The specificity of an antibody is due to _____.

(e) B-cells are activated by _____.

2. Write short notes on (any three):

4×3=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

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

Or

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

2+10=12
