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Reg. No. : .....

Code No. : 5456

Sub. Code : ZZOM 42

M.Sc. (CBCS) DEGREE EXAMINATION,  
APRIL 2023

Fourth Semester

Zoology – Core

IMMUNOLOGY

(For those who joined in July 2021 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Name the other name for Natural immunity.

- (a) Active
- (b) innate immunity
- (c) acquired immunity
- (d) None

6. Name an auto immune disease \_\_\_\_\_

- (a) Thyrotoxicosis
- (b) additions disease
- (c) Thrombocytopenia
- (d) all the above

7. Locate the place of maturation of T cells after migration from bone marrow,

- (a) thymus
- (b) lymph node
- (c) lymph
- (d) MALT

8. Tolerance is induced by the production of \_\_\_\_\_

- (a) mutation
- (b) T suppressor cells
- (c) clonal deletion
- (d) all the above

9. Name the HIV genome consists of two identical single-stranded

- (a) DNA molecules
- (b) DNA-RNA
- (c) RNA molecules
- (d) zDNA

2. Tell the immunoglobulin which crosses the human placenta is

- (a) Ig A
- (b) Ig I
- (c) Ig G
- (d) Ig M

3. Recognize the lymphocytes and platelets which contains

- (a) class I MHC
- (b) class II MHC
- (c) class III MHC
- (d) class IV MHC

4. Tell the name of the implanted tissues

- (a) grafts
- (b) donor
- (c) recipient
- (d) none of them

5. Select the T-cell receptor is a protein complex found on the surface of

- (a) B lymphocytes
- (b) T lymphocytes
- (c) plasmocytes
- (d) cytoocytes

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10. Select the graft that takes place within the same individual is \_\_\_\_\_

- (a) Autograft
- (b) allograft
- (c) xenograft
- (d) all the above

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Summarize Structure and functions of IgM.

Or

(b) Explain the detection of molecules using Western blot techniques.

12. (a) Predict the applications of mono clonal antibodies.

Or

(b) Write a note on Radio immune assay.

13. (a) Order the T cell receptor complex.

Or

(b) Order the functions of cytokines.

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14. (a) Assess the complement deficiencies.

Or

(b) Grade the consequences of complement activation.

15. (a) Write a note on immune response for tumour.

Or

(b) Write short note on Viral infections.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain the steps involved in recombinant DNA technology.

Or

(b) Illustrate the Primary lymphoid organ.

17. (a) Interpret the functions of major compatibility complex

Or

(b) Write about ELISA and its application.

18. (a) Order the role of cytokines in the inflammatory responses.

Or

(b) Explain the steps involved in B- cell activation.

19. (a) Analyze the various types of tolerance.

Or

(b) Discuss the autoimmune diseases in Man.

20. (a) Write an essay on clinical manifestation of graft rejection.

Or

(b) Compile the Cancer immunotherapy.

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