

(6 Pages)

Reg. No. :

Code No. : 5396

Sub. Code : PZOM 41

M.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2022

Fourth Semester

Zoology — Core

IMMUNOLOGY

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Granulocytes belongs to
(a) Myeloid cell line (b) Lymphoid cell line
(c) T-lymphocytes (d) Phagocytic cells
2. _____ is the process of promotion of phagocytosis of antifers by the phagocytic cells like macrophages and neutrophils.
(a) Opsonins (b) Opsonization
(c) ADGG (d) Idiotypes

3. Proteins targeted for proteolysis often have a small protein known as _____ associated with them.

(a) Ubiquitin (b) Proteasomes
(c) TAP protein (d) ABC proteins

4. From where we got active immunity

(a) anti-bodies
(b) live germ in injection
(c) weak end germs in injection
(d) blood transfusion

5. When body cannot distinguish between self and foreign matter. It is

(a) acquired immunity
(b) passive immunity
(c) auto immunity
(d) immuno deficiency

6. T cell is called _____

(a) Time cells (b) T lymphocyte
(c) Transmit cells (d) T cytokines

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7. Immunoglobulins are _____ protein.
 (a) Polysaccharide (b) Lipid
 (c) Aminoacids (d) Glycoproteins
8. Tuberculin or mantoux reaction is a type _____
 (a) Cytokine (b) Hypersensitivity
 (c) IFN (d) MCF
9. The vaccine is injected into the
 (a) water (b) plasma
 (c) protein (d) host
10. Type II cross _____ reaction is
 (a) Immune reaction between a bacterium and mao
 (b) Immune reaction that takes place between antibodies raised again of antigen one species to another
 (c) Both (a) and (c)
 (d) None of the above

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PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Give an account on haptens.
 Or
 (b) Write the properties B-lymphocytes.
12. (a) Explain the antigenic determinate on immunoglobulin.
 Or
 (b) What are cytokines? Mention the classes of cytokines.
13. (a) Explain third line of defense mechanism.
 Or
 (b) Describe immunoglobulin structure and function.
14. (a) Write short notes on bone marrow micro environment.
 Or
 (b) Give an account on cytosolic pathway.

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[P.T.O.]



15. (a) Explain the immunology of tumors.

Or

- (b) Explain toxoid vaccines.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Explain immuno suppressive therapy.

Or

- (b) Describe immune response to tumor antigen.

17. (a) Write scope of immunology.

Or

- (b) Explain lymphoid lineage.

18. (a) Describe in detail the process of lymphocyte activation.

Or

- (b) Write a short note on complement fixation test.

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19. (a) Give a detailed account on the mechanism of phagocytosis.

Or

- (b) Discuss the mechanism involved in graft rejection.

20. (a) Write a brief account on the different stages of antigen – antibody reaction.

Or

- (b) Explain effector responses of cell mediated and humoral immunity.

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