

PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).
Each answer should not exceed 600 words.

16. (a) Give an account on innate immunity.
Or
(b) Explain the structure and functions of thymus and lymph node.
17. (a) Explain the general structure of Ig with suitable diagram.
Or
(b) List out the salient features of Ag - Ab reaction.
18. (a) Explain humoral immune response in detail.
Or
(b) Write an essay on tumour immunology.
19. (a) Give an account on culture media for bacterial growth.
Or
(b) Describe bacterial growth curve.
20. (a) Write an account on AIDS.
Or
(b) Explain the production of penicillin.
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Reg. No. :

Code No. : 20393 E Sub. Code : AMZO 54

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

Fifth Semester

Zoology — Core

IMMUNOLOGY AND MICROBIOLOGY

(For those who joined in July 2020 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

- Which of the following does not act as a protecting agent for the body surface?
(a) Skin (b) Mucus
(c) Gastric acid (d) Salivary amylase
- Which of the following cells is involved in humoral immunity?
(a) T-cells (b) B-cells
(c) Mast cells (d) None
- Name of the heavy chain of immunoglobulin 'G' is
(a) μ (b) ϵ
(c) α (d) γ

4. Which immunoglobulin can pass through placenta?
(a) IgD (b) IgE
(c) IgM (d) IgG
5. What is the result of an abnormal response of the immune system to part of a person's own body?
(a) Passive immunity
(b) Cancer
(c) An allergic response
(d) Autoimmune disease
6. What are the solutions prepared from weakened or dead microorganisms, viruses or toxins that provide some immunity from disease?
(a) vaccines (b) histamines
(c) drugs (d) antibiotics
7. Bacteria having clusters of flagella at both poles of cells are known as?
(a) Amphitrichus (b) Monotrichous
(c) Peritrichus (d) Lophotrichous
8. Vaccination was invented by _____
(a) Watson (b) Jenner
(c) Crick (d) Pasteur
9. When was small pox eradicated from the world?
(a) 1971 (b) 1977
(c) 1967 (d) 1980

10. The most important characteristic symptom of rabies is _____
(a) fear of height (b) fear of water
(c) fear of cats (d) fear of fire

PART B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b).
Each answer should not exceed 250 words.

11. (a) Write a note on passive immunity.
Or
(b) Describe the structure of spleen.
12. (a) Explain agglutination reaction.
Or
(b) List out the biological properties of IgM.
13. (a) Distinguish the functions of T-lymphocytes.
Or
(b) Describe B-cell activation.
14. (a) Explain the structure of bacteria.
Or
(b) Explain the batch culture technique of bacterial growth.
15. (a) Give a brief account on food preservation.
Or
(b) Write an essay on measles.