



K24P 1120

Reg. No. :

Name :

Second Semester M.Sc. Degree (CBCSS – OBE – Regular) Examination,
April 2024
(2023 Admission)
ZOOLOGY
MSZGY02C11/MSZNG02C11 : Immunology

Time : 3 Hours

Max. Marks : 60

PART – A

Write a short note on **any five** from the following :

(3×5=15)

1. Lymphoid organs.
2. Immunogens.
3. Delayed type of hypersensitivity (DTH).
4. T-regulatory cells.
5. Immunological memory.
6. Tumor antigens.

PART – B

Answer **any three** of the following questions :

(6×3=18)

7. Explain the structure and functions of the immune cells.
8. Write a note on :
 - a) Interaction between innate and adaptive immune systems.
 - b) Regulation of complement system activation.

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9. Write a note on :
 - a) Types of vaccines.
 - b) Properties of adjuvants and haptens.
10. Write an essay on the structure and function of major histocompatibility complexes.
11. Write a note on :
 - a) Antibody classes and their biological activities.
 - b) Therapeutic applications of cytokines.

PART – C

Answer **any three** of the following questions :

(9×3=27)

12. Discuss various immunological tests developed based on agglutination and precipitation reactions.
13. Explain the mechanisms of tumor cell evasion of the immune response.
14. Describe the various mechanisms used to generate antibody diversity.
15. Explain the immunology of organ transplantation.
16. Discuss the causes, symptoms and treatment for autoimmune diseases.