

**A-939**

Total Pages : 3

Roll No. ....

**ZO-551**

**IMMUNOLOGY**

**M.Sc. Zoology (MSCZO)**

2nd Year Examination, 2024 (June)

Time : 2:00 Hrs.

Max. Marks : 70

**Note :-** This paper is of Seventy (70) marks divided into Two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given therein. *Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.*

**Section-A**

**Long Answer Type Questions**      2×19=38

**Note :-** Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

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( 1 )

P.T.O.

- Q. 1. Describe the organization and function of various primary lymphoid organs in human body.
- Q. 2. Give a brief account of immune cells involved in immune response.
- Q. 3. Describe in detail the basic structure of immunoglobulin molecules.
- Q. 4. Write a short note on :
- (a) MHC restriction
  - (b) MHC associated disease
- Q. 5. Write in detail on innate and acquired immunity.

### **Section–B**

#### **Short Answer Type Questions**      4×8=32

**Note** :– Section ‘B’ contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

- Q. 1. Explain the mechanism of T-cell mediated cytotoxicity.
- Q. 2. Write a short note on hybridoma Technology.
- Q. 3. Briefly describes the sites of host response in malarial infection.
- Q. 4. Explain about the DNA vaccines.

- Q. 5. Explain the mechanism of graft rejection.
- Q. 6. Discuss different B-cell deficiency disease.
- Q. 7. Explain the principle of ELISA and how it is useful in diagnosing HIV ?
- Q. 8. What is the NK cells and what is their role in CMI ?

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