

A-0116

Total Pages : 3

Roll No.

MZO-606

M.Sc. ZOOLOGY (MSCZO)

(Immunology-I, Immune System & Response)

4th Semester Examination, Session December 2024

Time : 2:00 Hrs.

Max. Marks : 35

Note :- This paper is of Thirty Five (35) 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 2×9½=19

Note :- Section 'A' contains Five (05) Long-answer type questions of Nine and Half (9½) marks each. Learners are required to answer any *two* (02) questions only.

- Q. 1. What do you understand by the term antibodies ?
Explain different types of antibodies with their functions.
- Q. 2. Discuss the properties and mechanism of adaptive immunity.
- Q. 3. Discuss the Hybridoma Technology for production of monoclonal antibodies.
- Q. 4. Describe the properties and functions of organs of immune system.
- Q. 5. Explain MHC and Write down the structure and functions of MHC I & II molecules.

Section-B

Short Answer Type Questions 4×4=16

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

- Q. 1. Explain active and passive immunity with examples.
- Q. 2. Write short notes on :
- (a) ELISA
 - (b) RIA

- Q. 3. Discuss the function of cytokines.
- Q. 4. Define Hapten, Adjuvant, Immunogenicity.
- Q. 5. Explain the role of T cells and B cells in our body.
- Q. 6. Describe different types of rejections.
- Q. 7. What is immune system ? Discuss two different types of immune system.
- Q. 8. Explain briefly the complement system.
