

**K-536**

Total Pages : 3

Roll No. ....

**MZO-607**

**Immunology-II, Immunotechnology**

M.Sc. Zoology (MSCZO)

4th Semester Examination, 2023 (Dec.)

**Time : 2 Hours]**

**[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)**

**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.

(2×9½=19)

1. Describe hypersensitivity and its types in detail.
2. What is Autoimmunity? Give its reasons. Describe any one autoimmune disease in detail.
3. How does the immune system fight infectious diseases? Describe its working in detail.
4. What is the main principle of ELISA? Describe its types in detail.
5. What is Transplantation immunology? Describe the different types of Grafts in detail.

## **SECTION-B**

### **(Short Answer Type Questions)**

**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. (4×4=16)

1. How do live attenuated vaccine work? Give any example.
2. Write about the immune cells that increase in parasitic infections.
3. Comment about Organ rejection and its reasons.

4. Write about the mechanism of detection of tumour-associated antigens by immune cells.
  5. Explain the term "immune surveillance".
  6. What is the principle of immunofluorescence? Write its uses.
  7. What is concomitant immunity to *M. tuberculosis* infection?
  8. What is the principle of RIA in immunology? Why is RIA more sensitive than ELISA?
-

