

**S-1074**

Total Pages : 3

Roll No. ....

**ZO-551**

**Immunology**

M.Sc. Zoology (MSCZO)

2nd Year Examination, 2022 (Dec.)

**Time : 2 Hours]**

**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.

**SECTION-A**

**(Long Answer Type Questions)**

**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.

(2×19=38)

1. Explain in detail the T-cells and B-Cells deficiency disease?

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**[P.T.O.]**

2. Describe the sites of host response in malarial infection?
3. Write a brief account of innate and acquired immunity?
4. Explain the organization of HLA complex in man and its gene product?
5. What is autoimmunity? How it occurs? Classify the autoimmune Disease?

### **SECTION-B**

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

**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. (4×8=32)

1. Write a short note on :
  - (a) MHC I and II.
  - (b) MHC Associated disease.
2. Explain the NK cells?
3. Briefly explains the characteristic feature of primary and secondary antibody response?
4. Write a short note on diagnosis of Typhoid and Leprosy?

5. What do you understand by the DNA vaccine?
  6. What is the edible vaccine and what is their future?
  7. Name the different type of Graft with suitable examples?
  8. Explain the Principle of ELISA Test?
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