

**A-1074**

**Total Pages : 3**

**Roll No. ....**

**MSCZO-604**

**Microbiology & Immunology**

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

**Examination 2026 (Feb.)**

**Time: 02:00 hrs**

**Max. Marks: 70**

Note : This paper is of Seventy (70) marks divided into two (02) Section 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 Nineteen (19) marks each. Learners are required to answer any two (02) questions only.**

**(2x19=38)**

**P.T.O**

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1. Describe the various types of filters and their uses.
2. Describe the various types of selective culture media for the growth of aerobic and anaerobic bacteria.
3. Describe the morphology and classification of viruses.
4. Describe mechanism of action for gram staining.
5. Write a short note on:
  - A) HIV Virus
  - B) Viral 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.**

**(4x8=32)**

1. Write the principle of filtration.
2. What do you understand by Humoral immunity?
3. What is phagocytosis? Write the basic mechanism of phagocytosis.

4. Write a note on diseases related to type II hypersensitivity.
5. Explain the process of simple staining.
6. Describe the structure of cell wall of bacteria.
7. Write the short notes on dry heat methods of sterilizations.
8. Write a short note on:
  - (a) ELISA
  - (b) Widal test

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