

A-246

Total Pages : 3

Roll No.

MSCZO-604

M.Sc. ZOOLOGY (MSCZO)

(Microbiology and Immunology)

3rd Semester 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.

- Q. 1. What do you understand by Sterilization ? Describe the different techniques of sterilization in detail.
- Q. 2. Describe the steps of virus reproduction in detail.
- Q. 3. What are airborne diseases ? What are the effects of airborne diseases ? Describe any *one* with example.
- Q. 4. What do you understand by immunity ? Describe the cellular immunity in detail.
- Q. 5. Describe the classification of immunoglobulin's and their properties.

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. Differentiate between precipitation and agglutination.
- Q. 2. Comment on pasteurization and its significance.
- Q. 3. What are the soil enzymes as indicators of soil health ?
- Q. 4. What is bioremediation ? What are some common types of Bioremediation ?

- Q. 5. What are antibiotics ? What does it mean when bacteria are resistant to antibiotics ?
- Q. 6. How vaccines works ? What is the purpose of vaccine booster ?
- Q. 7. Comment on Phagocytosis.
- Q. 8. What is Antigenicity ? What are the factors of antigenicity ?
