

A-0085

Total Pages : 3

Roll No.

MSCZO-604

M.Sc. Zoology (MSCZO)

(Microbiology & Immunology)

Examination, June 2025

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.

1. Describe growth curve of bacteria.
2. Describe the principal of negative staining.
3. Describe the various techniques involve in culture inoculation.
4. Explain the process of bioremediation.
5. Describe the structure and function of various immunoglobulins.

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.

1. Describe the methods of viral cultivation.
2. Explain the factors affecting the growth of the bacteria.
3. Write the principle and disadvantage of hot air oven.
4. What is simple culture media ? Give any three example of it.

5. Write short notes :
 - (a) Culture vials
 - (b) Laminar air flow cabinet
6. Give a systematic detail of classification of antibiotics.
7. Differentiate between Active and Passive immunity.
8. Define the term inoculation and inoculums.
