

A-1070

Total Pages : 03

Roll No. -----

MSCZO-509

Animal Behavior

M.Sc. Zoology (MSCZO)

Examination 2026(Feb.)

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)

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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- Q.1. Discuss the anti-predatory defenses exhibited by animals and explain the behavioral mechanism that support survival.
- Q.2. Explain in detail territoriality, homing and dispersal as behavioral adaptation.
- Q.3. Discuss social behavior in animals with examples of schooling, flocking and herding. Explain their adaptive value.
- Q.4. Explain “kin selection” and “group selection” theories in context of social organization in insects and primates.
- Q.5. Describe the mechanisms and significance of biological rhythm focusing on circadian and circa-annual rhythms and their role in migration.

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]

- Q.1. What do you mean by innate behavior? Give one example.
- Q.2. What are neuroethological studies?
- Q.3. Discuss the role of hormones that influence animal behavior.
- Q.4. Define chemical communication with two examples.
- Q.5. What is Visual Signaling in animals?
- Q.6. Differentiate between audio and light communication?
- Q.7. What is the role of environment in shaping the behavior?
- Q.8. What is optimal foraging theory. Discuss its significance?
