

A-0103

Total Pages : 3

Roll No.

MSCZO-509

M.Sc. ZOOLOGY (MSCZO)

(Animal Behavior)

2nd Semester Examination, Session December 2024

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. Explain the concept of innate behavior with examples. How does innate behavior contribute to survival and reproduction in animals ?
2. Explain the hormonal control of behavior. How do hormones such as adrenaline and oxytocin influence animal behavior ?
3. What is kin selection, and how does it explain altruistic behavior in animals ? Provide examples of kin selection in animal groups.
4. Discuss the role of memory and reasoning in animal behavior. How do cognitive skills contribute to problem-solving and decision-making ?
5. How do animals navigate during migration ? Discuss the different mechanisms animals use to orient themselves during long-distance movement.

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. What is an ethogram, and how is it used in behavioral studies ?
2. How do neurons control behavior in animals ?
3. What is the role of nature and nurture in developmental behavior ?
4. What is territoriality, and why is it important for animals ?
5. How does flocking in birds provide survival benefits ?
6. What is the difference between circadian and circannual rhythms ?
7. Define habituation and its role in behavioural adaptation.
8. Describe one anti-predation defense mechanism.
