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MZOE-002

M. SC. (ZOOLOGY) (MSCZOO)

Term-End Examination

June, 2025

**MZOE-002 : ANIMAL BEHAVIOUR AND ANIMAL
WELFARE ETHICS**

Time : 2 Hours

Maximum Marks : 50

Note : Answer any *five* questions. All questions
carry equal marks.

1. Define the following terms : $2 \times 5 = 10$

- (a) Classical conditioning
- (b) Operant conditioning
- (c) Ethogram
- (d) Unconditioned reflex
- (e) Fixed Action Pattern (FAP)

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2. (a) What is code breaking ? With the help of an suitable example, explain brood parasitism in relation to code breaking. 5
- (b) With suitable example, explain social learning theory. 5
3. (a) Explain the social behaviour of lion. 5
- (b) What are the conditions that increase the probability of evolution of reciprocal altruism ? 5
4. (a) Discuss parental care in amphibians. 4
- (b) Write down the mathematical representation of Hamilton's rule. 2
- (c) Write a short note on reproductive fitness. 4

5. (a) Briefly describe the following areas of animal welfare, giving examples :

3 × 2 = 6

(i) Biological functioning

(ii) Feelings

(iii) Naturalness

- (b) Discuss the role of environmental coping issues in animal welfare. 4

6. (a) Discuss the evolution of five freedoms with examples. 5

- (b) Explain the *five* domains of animal welfare. 5

7. (a) What issues might conflict with the desires of zoos to provide good welfare for the species in their care ? 5

- (b) Describe some long standing welfare problems that could be improved by future selective breeding. 5
8. (a) Describe the *six* main ethical views relating to our treatment of animals. 6
- (b) How do deontological ethical views differ from consequentialist views ? Discuss. 4

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