

**B.Sc. ZOOLOGY  
FOURTH SEMESTER  
ANIMAL BEHAVIOUR  
BSZ-402**

**SET  
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1hr. 30 mins.

Full Marks: 35

Time: 15 mins.

Marks: 10

( Objective )

*Choose the correct answer from the following:*

*1×10=10*

- Diana Fossy conducted the study of animal behaviour on which animal?
  - Chimpanzee
  - Gorilla
  - Ape
  - None of the above
- The term circadian rhythm was first coined by the American ethologist:
  - Franz Halberg
  - Nico Tinbergen
  - Giovanni Pico
  - G.E. Hutchinson
- The learning process that occurs at a remarkably early age is:
  - Habituation
  - Reasoning
  - Imprinting
  - Latent
- The branch of ethology that deals with the relation between hormones and behaviour is called as:
  - Ethogenetics
  - Eco-ethology
  - Ethophysiology
  - Etho-endocrinology
- Jane Goodall conducted the study of animal behaviour in :
  - Laboratory
  - School
  - College
  - Natural Habitat
- What defines a fixed action pattern (FAP) in animal behavior?
  - A sequence of behaviors that can be modified based on learning
  - A sequence of behaviors that occurs in response to a specific stimulus and is largely unchangeable
  - A random sequence of behaviors that occurs without any specific stimulus
  - A behavior that changes based on social interactions with other animals
- What is brood parasitism in birds?
  - A behavior where birds build elaborate nests to attract mates
  - A reproductive strategy where birds lay their eggs in the nests of other bird species
  - A feeding behavior where birds scavenge for food in urban environments
  - A migration pattern observed in certain bird species during winter months
- Which of the following behaviors is an example of altruism displayed by worker bees?
  - Collecting nectar for personal consumption
  - Mating with the queen
  - Defending the hive even at the risk of their own lives
  - Performing the waggle dance only for close relatives

9. Which of the following is not a form of animal communication?
- a. Birdsong
  - b. Bee dance
  - c. Whale song
  - d. Morse code
10. A hypothetical state of individual organism that arouses a goal directed activity is called:
- a. Instinct
  - b. Stereotype
  - c. Motivation
  - d. All of the above

( Descriptive )

Time : 1 hr. 15 mins.

Marks : 25

[ Answer question no.1 & any two (2) from the rest ]

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|---|----|
| 1. Write short notes: (any one)   | 5  |
| a) Chemical communication   |    |
| b) Visual communication   |    |
| 2. What is learning? Discuss the various types of learning in ethology.   | 10 |
| 3. Explain in brief about the methods of study of animal behavior.  | 10 |
| 4. Describe the concept of Fixed Action Patterns (FAPs) in animal behavior, including their characteristics and significance. Provide examples of FAPs observed in different species. | 10 |
| 5. Explain about different types of parental care strategies employed by animals, including vertebrates and invertebrates.  | 10 |

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