

**211112**

**M. Sc. (Fourth Semestr) Examination, June 2021**

**ZOOLOGY**

*Paper : First*

**(Animal Behaviour & Neurophysiology)**

*Maximum Marks : 42*

*Note: Attempt questions of all three sections as directed.*

**Section-A**

**(Objective Type Questions)**

*Note: Attempt all questions. All questions carry equal marks.*

1. Choose the correct answer :

- (i) Reflex that lasts into adulthood .....

  - (a) Startle reflex
  - (b) Step reflex
  - (c) Group reflex
  - (d) Sneeze reflex

- (ii) Waggle dance of Honey bee is an example of ..... communication.

  - (a) Chemical
  - (b) Light
  - (c) Visual
  - (d) Audio

- (iii) Anadromous fishes migrate from :
- (a) Fresh water into sea to spawn
  - (b) Sea up into fresh water to spawn
  - (c) Fresh water to sea efor shelter
  - (d) Sea up into fresh water for shelter
- (iv) Building a nest by birds is an example of .....
- (a) Social behaviour
  - (b) Parental care
  - (c) Kin selection
  - (d) Sexual selection
- (v) Imprinting is a form of :
- (a) Social behaviour
  - (b) Sexual behaviour
  - (c) Feeding behaviour
  - (d) Learning behaviour

### Section-A

#### (Short Answer Type Questions)

*Note: Attempt all **five** questions. **One** question from each unit is compulsory. All questions carry equal marks.*

#### Unit-I

2. Attempt all questions :

Visual perception.

Or

Olfactory perfection.

#### Unit-II

3. Write a brief note on :

Neural control of behaviour.

**Or**

Hormonal control of behaviour.

**Unit-III**

4. Explain the terms :

Habitat selection with one suitable example.

**Or**

Food selection with one suitable example.

**Unit-IV**

5. Write short notes on :

Schooling in fishes

**Or**

Flocking in Birds

**Unit-V**

6. Write short note on :

Concept of sign stimuli.

**Or**

Concept of imprinting

**Section-B**

**(Long Answer Type Questions)**

*Note: Attempt all **five** questions. **One** question from each unit is compulsory. All questions carry equal marks.*

**Unit-I**

7. Classify behavioural patterns.

**Or**

Write an account of reflexes and complex behaviour.

**Unit-II**

8. Give an account of evolution of language in primates.

**Or**

Explain hormonal basis of motivation.

**Unit-III**

9. Write an account of circadian rhythms.

**Or**

Explain Homing, territoriality and dispersal.

**Unit-IV**

10. Explain social organisation in insects with suitable example.

**Or**

Explain social organisation in primates with a suitable example.

**Unit-V**

11. Write short notes on :

Human being and territorial behaviour.

**Or**

Human social behaviour.