

**PD- 171 CV-19**  
**M.Sc. Zoology (First Semester)**  
**Term End Examination Dec.-2020**  
**Compulsory/Optional**  
**Group-**  
**Paper –**

Name/ Title of Paper: Animal Behavior  
Time : Three Hours]

[Maximum Marks : 80  
Minimum Marks : 29

नोट : दोनों खण्डों से निदेशानुसार उत्तर दीजिए। प्रश्नों के अंक उनके दाहिनी ओर अंकित हैं।

**Note : Answer from both the Sections as directed. The figures in the right-hand margin indicate marks.**

**Section-A**

- 1- Answer each of the following question in one sentence only: 1X10
- (a) What is ethology?
  - (b) What do you mean by fish schooling?
  - (c) Define circadian rhythm.
  - (d) Which hormone involved in emergency stress reaction?
  - (e) Define reflex action.
  - (f) Name the type of migration in fishes.
  - (g) What is courtship?
  - (h) Define altruism.
  - (i) What is reasoning?
  - (j) Define memory.
- 2- Answer the following questions. 2X5
- (a) What is biological rhythm?
  - (b) Explain echolocation with suitable example.
  - (c) What is Innate releasing mechanism (IRM)?
  - (d) define habitat imprinting with suitable example.
  - (e) Explain in brief the navigation in birds.

**Section-B**

Answer all question:

15X4

**Unit-I**

- 3- Write an essay on history of ethnology and its significance.

**Or**

Write short notes on:

- i- Aggression
- ii- Territoriality

**Unit-II**

- 4- What is communication? Describe the visual behaviour in honey bee.

**Or**

Write an essay on hormonal control of behaviour.

**Unit-III**

- 5- Explain mating strategies in animal.

**Or**

Write short notes on:

- i- Flocking in birds
- ii- Kin Selection

**Unit-IV**

- 6- Write an essay on migration in birds.

**Or**

Write short notes on:

- i- Conditioning
- ii- Habituation