This question paper contains 3 printed pages]
Roll No.
S. No. of Question Paper : 1174
Unique Paper Code : 6793010009
Name of the Paper : Ethology (DSE)
Name of the Course : B.Sc. (H) Biological Sciences (NEP) 2024
Semester : V
Duration: 2 Hours Maximum Marks: 60
(Write your Roll No. on the top immediately on receipt of this question paper.)
Attempt four questions in all.
Question No. 1 is compulsory.
All questions carry equal marks.
All parts of a question should be answered together.
1. (a) Define the following: $1 \times 5 = 5$
(i) Inclusive fitness
(ii) Code breakers
(iii) Reciprocal altruism
(iv) Territoriality
(v) Habituation.

Elaborate the different types of orientation behaviour with suitable examples.

What are the characteristics of reflexes? Explain the various types of reflexes. 7.5×2=15

(i)

. (i)

2.

3.

4.

(a)

 \cdot (b)

(b)

(b)

(3)

 $3\times5=15$

5. (a) Elucidate the role of intersexual and intrasexual selection in sexual behaviour. Explain how they influence development of reproductive strategies in various species by giving suitable examples.

- (b) What do you understand about sexual dimorphism? Explain the theories which explains the male ornamentation and female mating choice?
- 6. Write short notes on any three of the following:
 - (i) Courtship behaviour in 3-spine stickleback
 - (ii) FAP
 - (iii) Infanticide
 - (iv) Experiment to prove dance as a mode of communication.

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