2021
Zoology
[Fifth Semester]
Paper - DSE1T (Animal Behaviour)
Full Marks : 40
Time : 2 hours
The figures in the right-hand margin indicate marks.
Candidates are required to give their answers in their own
words as far as practicable.
Illustrate the answers wherever necessary.

1. **Answer any five.**   **5×2=10**

    A) Define behaviour. What are the proximate and ultimate
        cause of behaviour.

    B) What is learning behaviour? Name various types of
        learned behaviour.

    C) What is habiluation?

D) What is reciprocal altruism? Give example.

E) What is non-verbal communication? Give example.

F) What are the factors influencing biological rhythm? Write its significance.

G) What is courtship? What are the adaptive advantages of courtship behaviour.

H) What is imprinting? State its significance?

2. **Answer any four.** **4×5=20**

A) What is stereotyped behaviour? What are the important features of stereotyped behaviour? Name the types of stereotyped behaviour. 1+2+2=5

B) Write down the differences between instinct vs. learned behaviour. What is cognitive behaviour?

4+1=5

C) What is bee dance? Write the types of bee dance? What informations are convayed by bee dance?

1+1+3=5

D) Write a short note on :- $2\frac{1}{2}+2\frac{1}{2}=5$

1) Diurnal rhythm

2) Photoperiodism

E) Define reproductive strategies. Describe various aspects of mate choice by females. $1+4=5$

F) Write a short none on "Parental care by males." 5

3. **Answer any one.** **10×1=10**

A) What is classical conditioning? Describe the Pavlovian experiment in support of classical conditioning. Write the differences between classical and operant conditioning. $1+5+4=10$

B) What is Hamilton's rule in animal behaviour? How hamilton explained genetic affinity of bees. What is Kin selection? $3+3+4=10$