

Zoology [Honours]

[CBCS]

B.Sc. Fifth Semester End Examination-2023

(Regular & Supplementary Paper)

PAPER-DSE1T

Full Marks: 40

Time: 02 Hrs

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

Group A

1. Answer any FIVE questions of the following: **5x2= 10**
- What is ultimate cause of behaviour?
 - What is kinesis and taxis?
 - Mention the types of learning.
 - Write down the drive of behaviour.
 - What is inclusive fitness?
 - Explain reciprocal Altruism.
 - What is circadian rhythm. Give an example.
 - Write down the adaptive significance of biological clock.

Group B

2. Answer any FOUR questions of the following: **4x5 = 20**
- a. Write a short note on i) sexual dimorphism ii) stereotyped behaviour. **2½ + 2½**
- b. What is endogenous pacemaker? Write a note on circadian rhythm. **2+3**
- c. What is communication? Write down the component of communication. What is visual communication? **1+2+2**
- d. What is sexual selection? Write a note on the intrasexual selection in reproductive behaviour. **1+4**
- e. Distinguish between habituation and imprinting.
- f. Describe the purpose and advantages of the waggle dance with proper diagram.

Group C

3. Answer any ONE question of the following: **1x10 = 10**
- a. Complete the process underlying classical conditioning and instrumental conditioning. Mention the difference between classical and operant conditioning with proper example. **5+5**
- b. Write a short note on –
- i) Special learning & spatial memory
- ii) Imprinting **5+5**
-