2022

Zoology [HONOURS] (CBCS)

(B.Sc. Fifth Semester End Examination-2022) 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

1. Answer any five questions of the following:

5x2=10

- a) What are sign stimulus and releaser?
- b) What do you mean by motivation?
- c) Define reflex. Give example.
- d) What is inclusive fitness?
- e) Define Altruism. What is reciprocal altruism.
- f) Explain social dominance
- g) What does 'R', 'B' and 'C' represents in Hamilton Rule?
- h) Write down the adaptive significance of biological clock.

۷.	Answer any four questions of the following.
a)	What is communication? Write down the advantages of virtual
	communication. 1+4
b)	Elaborate the proximate and ultimate cause of behaviour.
	$2\frac{1}{2} + 2\frac{1}{2}$
c)	Mention the differences between instinctive behaviour and
	learned behaviour. 5
d)	Describe the purpose and advantages of the waggle dance with
	proper diagram.
e)	Distinguish between habituation and imprinting. $2\frac{1}{2} + 2\frac{1}{2}$
f)	Complete the process underlying classical and operant
	conditioning.
3.	Answer any one question: $1 \times 10 = 10$
a)	Write a short note on
	i) Lunar rhythms
	ii) Sexual dimorphism
	iii) stereotyped behaviour
	iv) Pavlob's action. $2\frac{1}{2} \times 4=10$
b)	What is chronobiology? Describe the types and characteristics
	of biological rhythms. What is tidal and lunar rhythms. 2+6+2