5 SEM TDC DSE ZOO (CBCS) 1 (H)

2022

(Nov/Dec)

ZOOLOGY

(Discipline Specific Elective)
(For Honours)

Paper : DSE-1

(Animal Behaviour and Chronobiology)

Full Marks: 53
Pass Marks: 21

Time: 3 hours

The figures in the margin indicate full marks for the questions

for the questions		
1. Fill	in the blanks :	1×5=5
(a)	is a temporary, phase-specifinnate form of behaviour.	ic,
(b)	The 24 hrs cycle found in organisms called cycle.	is
(c)	stimulus elicits a particul behavioural response in animals.	ar
P23 /537	(Turn	Over)

- (d) Running a maze by a rat to get food is a type of ____ behaviour.
- (e) Honeybee communicates the worker bees about the food source situated far apart by _____.
- **2.** Write short notes on any *three* of the following: $3\times3=9$
- (a) Proximate causes of behaviour
- (b) Imprinting
- (c) Tidal rhythms
- (d) Chronotherapy
- **3.** What is biological clock? Explain how circadian rhythm controls the activities of animals with suitable examples. 2+7=9
- What is orientation? Explain the types of orientation behaviour present in animals.

 2+7=9
- Explain the foraging behaviour in honeybee and state the advantage of waggle dance.
 4+5=9

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6. Write briefly on:

 $4 \times 3 = 12$

- (a) Origin of ethology
- (b) Reflexes
- (c) Role of melatonin

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What is chronobiology? Describe the significance of biological oscillation. Explain sexual conflict in parental care. 2+4+6=12

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