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

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(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*

1. Fill in the blanks : 1×5=5

(a) ____ is a temporary, phase-specific, innate form of behaviour.

(b) The 24 hrs cycle found in organisms is called ____ cycle.

(c) ____ stimulus elicits a particular behavioural response in animals.

(2)

(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 : 3×3=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

4. What is orientation? Explain the types of orientation behaviour present in animals. 2+7=9

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

(3)

6. Write briefly on :

4×3=12

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

Or

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