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

2023

(November)

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) Imprinting is a _____ specific behaviour.
- (b) _____ is regarded as the father of ethology.
- (c) Swimming in fish is a type of _____ behaviour.
- (d) _____ describes a group of individuals of same species cooperatively living together.

(2)

- (e) An animal ceases responding to a stimulus is known as ____.
2. Write short notes on any *three* of the following : $3 \times 3 = 9$
- (a) Circadian rhythm
 - (b) Orientation
 - (c) Dance language of bee
 - (d) Sexual conflict
3. Explain the ultimate and proximate causes of behaviour. State the patterns of behaviour found in animals. $4 + 5 = 9$

Or

Define ethology. Enumerate the differences between innate and learned behaviour. 9

4. What is learning? Explain an associate behaviour with an example. $2 + 7 = 9$

Or

What are the advantages of social behaviour? Add a note on altruistic behaviour in animal society. $5 + 4 = 9$

5. What is photoperiod? How does it regulate the reproductive behaviour in animals? $5 + 7 = 12$

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(Continued)

(3)

Or

Name the types of biological rhythms. Write a note on photic and non-photoc zeitgebers and role of melatonin to induce it. 12

6. Write the characteristics and adaptive significance of biological clock in animals. $4 + 5 = 9$

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