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

## 2021

( Held in January/February, 2022 )

## **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
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- (a) \_\_\_\_ behaviour is rigid, genetically inbuilt and not influenced by environment.
- (b) The interaction in which an individual sacrifices some of its own reproductive potentials to benefit another individual is called \_\_\_\_\_.

(Turn Over)

(c)	Male bluster beetles drumming female's abdomen is a type of communication.
(d)	type of learning happens in a narrow window of time shortly after birth.
(e)	A is any external/environmental cue that synchronizes an organism's biological rhythm.
	te short notes on any <i>three</i> of the wing: 4×3=12
(a)	Historical development of chronobiology
(b)	Waggle dance
(c)	Habituation
(d)	Chronotherapy
	e a comparative account on stereotyped learned behaviour in animals.
	Or
Expl class	t do you mean by classical conditioning? ain it with a suitable example. How does sical conditioning differ from operant litioning?

2.

3.

**4.** What are eusocial animals? State the advantages of animals living in society. Write some negative consequences of group living.

1+4+4=9

Or

What do you mean by sexual selection? Write an elaborative note on sexual conflict in parental care. 4+5=9

5. Circadian and circannual rhythms are found in almost all organisms. Explain why they are important to the survival of the organism.

Or

What do you mean by biological rhythm? Explain the role of environmental cues in biological rhythms. 4+5=9

- 6. Write explanatory notes on any two of the following:  $4\frac{1}{2} \times 2 = 9$ 
  - (a) Chronomedicine
  - (b) Contributions of Konrad Lorenz and Niko Tinbergen in the field of animal behaviour
  - (c) Altruism

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