

UNDERGRADUATE SEMESTER-V EXAMINATION, 2021

Subject: ZOOLOGY

Course ID: 52616

SH/ZOO/503/DSE-1

Course Title: Animal Behavior & Chronobiology

Full Marks: 25

Time: 1 Hr and 15 min

The figures in the margin indicate full marks

Answer all the questions.

UNIT I

1. *Answer any five of the following questions:* 1x5=5

- a) What do you mean by orientation?
- b) Name one eusocial organism.
- c) Who discovered classical conditioning?
- d) What is ethology?
- e) What is proximate cause of behaviour?
- f) Give example of operant conditioning.
- g) What is instinct?
- h) What is male rivalry?

UNIT II

2. *Answer any two of the following questions:* (5x2=10)

- a) Write short note on the role of melatonin and serotonin in biological rhythm. What are photic and non-photoc zeitgebers? 3+2=5

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Date _____

- b) What is imprinting? Describe the different types of imprinting with example. $2+3=5$
- c) Write short note on tidal rhythms and lunar rhythms. $2.5+2.5=5$
- d) What is the role of behavior in conservation biology? What are the methods of recording a behavior? $2+3=5$

UNIT III

3. Answer *any one* of the following questions: **(10x1=10)**

- a) What is altruism? Give example and explain in detail. What are the different types of dance seen in honey bee? Describe them with relation to foraging $(1+3)+6=10$
- b) What is inter-sexual selection in relation to sexual behavior? How sexual conflict can affect parental care? Write a short note on habituation. $3+4+3=10$

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