

# 2021/TDC (CBCS)/EVEN/SEM/ ZOODSE-602T/018

## TDC (CBCS) Even Semester Exam., September—2021

## **ZOOLOGY**

(6th Semester)

Course No.: ZOODSE-602T

( Animal Behaviour and Chronobiology )

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions.

### SECTION-A

Answer any fifteen of the following questions:

1×15=15

- 1. Define ethology.
- 2. What is proximate behaviour?
- 3. What is Pavlov's classical experiment?
- 4. From which country Karl von Fisher belongs?

(Turn Over)

- 5. What is recording of behaviour?
- 6. Name one method of behavioral recording.
- 7. Define orientation.
- 8. What is reflex?
- 9. What is instinct behaviour?
- 10. Define habituation.
- 11. What is imprinting?
- 12. Define associative learning.
- 13. What is visual communication?
- **14.** Give one example of insect showing social behaviour.
- 15. What is altruism?
- 16. What is sexual dimorphism?
- 17. Define asymmetry of sex.
- 18. What do you understand by mate choice?
- 19. Define biological rhythm.

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- 20. What is biological clock?
- 21. Mention one importance of melatonin in animals.
- 22. What do you understand by the concept of average?
- 23. What do you understand by chronobiology?
- 24. Define amplitude and phase as in chronobiology.
- 25. What are the types of biological rhythm?
- 26. Define circadian rhythm/cycle.
- 27. Give one example of lunar rhythm.
- 28. What is photoperiodism in animals?
- 29. What is masking?
- 30. Define circannual rhythm.

#### SECTION—B

Answer any five of the following questions: 2×5=10

- 31. What is the ultimate cause of behaviour? Give example.
- 32. What are the aspects of ethology?

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- (5)
- 33. Differentiate between instinct and learnt behaviour.
- 34. Explain operant conditioning.
- 35. Name the castes found in honeybee colony.
- 36. What is male rivalry?
- 37. How does melatonin help in survival?
- 38. State the evolutionary significance of biological clock.
- 39. State the characteristics of biological rhythm.
- **40.** Differentiate between short- and long-term rhythm.

#### SECTION—C

Answer any five of the following questions:  $5 \times 5 = 25$ 

- **41.** How do proximate causes initiate ultimate cause of behaviour?
- 42. Differentiate between operant and classical conditioning.

(Continued)

- **43.** Stereotyped behaviours are inborn and not learnt. Discuss.
- **44.** Differentiate between habituation and learnt behaviour.
- **45.** How are the senses used by organism for effective communication? Give examples.
- **46.** Discuss the different roles played by worker bees in their lifetime. Add a note on castes of honeybees.
- **47.** What is disruption of biological clock? What are its impacts on organisms?
- 48. Define biological oscillation with examples.
- **49.** Differentiate between tidal rhythm with lunar rhythm. Give examples.
- **50.** How does synchronization help in adaptation and survival?

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