



**2023/TDC(CBCS)/EVEN/SEM/
ZOODSE-603T/265**

TDC (CBCS) Even Semester Exam., 2023

ZOOLOGY

(6th Semester)

Course No. : ZOODSE-603T.

(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. What is ethology?**
- 2. Define the term 'behaviour'.**
- 3. Who first studied the social behaviour in honeybee?**



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4. Write the name of two scientists who got Nobel Prize for working on animal behaviour.
5. Define taxis.
6. What is orientation?
7. What is conditioned reflex?
8. What is imprinting?
9. What is social behaviour?
10. Define altruism.
11. What is asymmetry of sexes?
12. What is sexual dimorphism?
13. Define chronobiology.
14. What is biological clock?
15. What is chronopharmacology?

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((3))

16. What is chronotherapy?
17. What is biological rhythm?
18. What is circannual rhythm?
19. Define photoperiod.
20. Define masking.

SECTION—B

Answer any *five* of the following questions :

2×5=10

21. What is the proximate cause of behaviour?
Give example.
22. Mention the importance of ethology.
23. Differentiate between Instinct and Learnt behaviour.
24. What is associative learning?
25. What do you mean by communication and senses?
26. Write a short note on intra-sexual selection.

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(Turn Over)



(4)

27. Write a short note on chronomedicine.
28. What is biological oscillation?
29. What is circadian rhythm?
30. What are short- and long-term rhythms?

SECTION—C

Answer any *five* of the following questions :

5×5=25

31. Describe briefly the methods used for study of animal behaviour.
32. Write about the brief profiles of Karl von Frisch and Ivan P. Pavlov.
33. Describe the individual behaviour patterns.
34. What is learning? Describe different types of learning behaviour with the help of suitable examples.
35. Give an account of social organization in honeybees.
36. Write briefly about the sexual behaviour in animals.

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(5)

37. Explain various types of biological clocks with examples.
38. Discuss the phenomenon of biological clocks.
39. How circadian rhythm influences endogenous and exogenous system of animal behaviour? Add a note on its significance.
40. What is photoperiod? Write how photoperiod regulates seasonal reproduction in vertebrates.

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