

2023
B.A./B.Sc.
Fifth Semester
DISCIPLINE SPECIFIC ELECTIVE – 1
ZOOLOGY
Course Code: ZOD 5.11
(Animal Behaviour & Chronobiology)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. Give a brief profile of Karl Von Frish and Ivan Pavlov. Add a note on proximate causes of animal behaviour. 8+6=14
2. Give an account on the methods and recording of an animal behaviour. 14

UNIT-II

3. Write short notes on the following: 7×2=14
 - (a) Imprinting
 - (b) Orientation
4. Discuss the individual behavioural pattern of individual animals. Add a note on habitation. 9+5=14

UNIT-III

5. What is sexual dimorphism and mate choice? Explain the sexual conflict in parental care. 9+5=14
6. Write short notes on the following: 7×2=14
 - (a) Altruism
 - (b) Concept of society

UNIT-IV

7. Explain the concept of average and phase. 7+7=14
8. Write notes on the following: 7×2=14
- (a) Adaptive significance of biological clocks
 - (b) Biological oscillation with special emphasis on amplitude

UNIT-V

9. Explain in detail about the circadian rhythms. Add a note on circannual rhythms. 10+4=14
10. Write notes on the following: 7×2=14
- (a) Chronomedicine
 - (b) Photoperiod and its regulation in seasonal reproduction of vertebrates
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