

**B.Sc. Semester-V Examination, 2022-23****ZOOLOGY [Honours]**

Course ID : 52616 Course Code : SH/ZOO/503/DSE-1

Course Title : Animal Behaviour &amp; Chronobiology

Time : 1 Hour 15 Minutes

Full Marks : 25

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.***UNIT-I**1. Answer any **five** of the following questions:

1×5=5

- What is Chronobiology ?
- What do you mean by latent learning ?
- What is photic zeitgeber?
- What is masking ?
- Define kin selection.
- What is sexual conflict?
- What is sibling rivalry?
- Define altruism.

**UNIT-II**2. Answer any **two** of the following questions:

5×2=10

- What is stereotyped behavior? Write its important features. What is FAP ? 1+3+1
- Distinguish between filial imprinting and sexual imprinting. State the adaptive significance of imprinting. 2+3
- What is the role of melatonin and serotonin in biological rhythm? 5
- Write a note on circadian and circannual rhythm with examples.  $2\frac{1}{2}+2\frac{1}{2}$

**UNIT-III**3. Answer any **one** of the following questions:

10×1=10

- What do you mean by intrasexual and intersexual selection? Explain briefly male rivalry and female choice with one example each. 2+4+4
- How does classical conditioning differ from operant conditioning? How does sexual dimorphism help in mate selection in animals? Write a brief note on sensitization. 3+4+3