

SH-V/ZOO-503/DSE-1/19

**B.Sc. 5th Semester (Honours) Examination, 2019-20****ZOOLOGY****Course ID : 52616****Course Code : SH/ZOO-503/DSE-1**

Course Title: Animal Behaviour and Chronobiology

**Time: 1 Hour 15 Minutes****Full Marks: 25***The figures in the right hand side margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*

1. Answer *any five* questions: 1×5=5
- (a) Define 'ethology'.
  - (b) Who is a 'stereotype' person?
  - (c) What is 'foraging'?
  - (d) What does 'sexual conflict' mean?
  - (e) Define Chronobiology.
  - (f) What do you understand by 'biological clock'?
  - (g) Why do females choose mates?
  - (h) Define 'imprinting'.
2. Answer *any two* questions: 5×2=10
- (a) How do different animals communicate with each other? Mention the differences between inter-sexual and intra-sexual selection? 3+2=5
  - (b) Describe the role of behaviour in Conservation Biology.
  - (c) What is meant by the term 'Sexual dimorphism'? Describe 'Various Castes' in honey bee. 2+3=5
  - (d) What is 'Biological oscillation'? Describe the significance of biological clocks in animals. 1+4=5
3. Answer *any one* of the following: 10×1=10
- (a) Describe the Tidal rhythm and Lunar rhythm in animals with suitable examples. Write a note on habituation. 3+3+4=10
  - (b) Write short notes (*any two*): 5×2=10
    - (i) Zeitgeber
    - (ii) Sexual Conflict
    - (iii) Circannual Rhythms
    - (iv) Role of Melatonin in Behavioural Biology
    - (v) Masking and Synchronization
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