

**Unique Paper Code: 32237901**

**Name of the Course: B. Sc. H Zoology Examination, 2020 CBCS**

**Name of the Paper: Animal Behaviour and Chronobiology (DSE)**

**Semester: V**

**Duration: 3H**

**Maximum Marks: 75**

**Instructions for the candidates**

Students shall answer the questions on A4 Size papers and mark page number on the top of each page. On the first page, the student shall write the following details.

Examination Roll Number:

B. Sc. H Zoology Examination, 2020 CBCS

Semester V

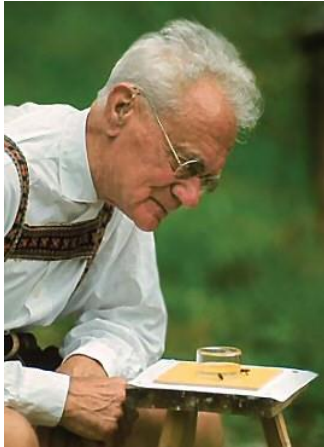
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Name of the College:

Answer any FOUR questions in all. All questions carry equal marks (18.75 marks each). Draw well labelled diagrams wherever necessary.

Q.1. Observe the Picture given below and describe his contributions in the modern ethology. Describe in detail the different dance languages of the honey bee. How does a foraging bee use SUN as compass for orientation?



Q.2. Define orientation and discuss its various types with suitable examples.

Q.3. What are the fundamental characteristics of eusocial animals? Discuss any two eusocial animals by describing how they maintain their societies.

Q.4. What is courtship ritual and what are its significances? With relevant examples differentiate intra-sexual selection from the inter-sexual selection.

Q.5. Define chronobiology. Discuss the factors responsible for regulating the biological clock and the adaptive significance of biological clocks.

Q.6. What do you understand by the term Photic and the Non-photic Zeitgebers? Describe the process of entrainment and its significance by giving two examples.