



**UNIVERSITY OF NORTH BENGAL**  
B.Sc. Honours 5th Semester Examination, 2020

**DSE3-ZOOLOGY**

Full Marks: 40

**ASSIGNMENT**

*The questions are of equal value.  
The figures in the margin indicate full marks*

**The question paper contains GROUP-A and GROUP-B.  
The candidates are required to answer any *one* from *two* papers and  
candidates should mention it clearly on the Answer Book.**

**GROUP-A**

**ANIMEL BEHAVIOUR AND CHRONOBIOLOGY**

**Answer any *four* of the following**

10×4 = 40

1. Describe briefly the experiment of classical conditioning by Ivan Pavlov.
2. Briefly describe 'Fixed action pattern' and write down its significance.
3. Give an account on different types of chemical communication in insects.
4. What is kin selection and how is it related with individual's fitness– Explain with example.
5. Write briefly on male rivalry in the context of mate-choice.
6. What is photoperiodism and how is it related with the regulation of seasonal reproduction of vertebrates?
7. What is 'master clock' and how it regulates circadian rhythm in higher animals?

8. Write briefly on altruism highlighting 'reciprocal altruism' and describe the cost and benefits of this behaviour with example.

**GROUP-B**

**WILDLIFE CONSERVATION AND MANAGEMENT**

**Answer any four of the following**

10×4 = 40

1. What are the national initiatives taken for wildlife conservation in India?
2. Write an essay on gene bank and its role in conservation.
3. Describe two ways of estimating population of mammals in the wild.
4. Briefly discuss on the prerequisites and differences of wildlife sanctuary and national park.
5. Discuss on the causes and consequences of human wildlife conflicts.
6. "Ecotourism: a conservation tool" – Discuss.
7. Discuss the role of CITES for Tiger conservation in India.
8. Discuss on the importance of *in-situ* and *ex-situ* conservation of wildlife with examples.

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