



Date: 11-11-2016

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

**Section-A**

**Answer ALL the questions**

**(10 x 2=20)**

1. Differentiate hereditary mutation from acquired mutation.
2. Why Ethologists are familiar with the elements of genetics?
3. Write a note on the animal emotions.
4. What is Mullerian mimicry? Give an example.
5. Write a note on coordination.
6. What is Chronomedicine?
7. Comment on Chemical communication.
8. Distinguish between Diurnal and Nocturnal behaviours of animals.
9. Define Homeostasis.
10. What is Neuroethology?

**Section-B**

**Answer any FOUR questions**

**(4 X 10 =40)**

11. How does Mimicry become as the evolutionary strategies?
12. Explain the classical conditioning of learning with Ivan Pavloes' Experiment.
13. Describe gene mutation and its types illustrate with examples.
14. Explain the Evolutionary aspects of learning with two examples.
15. Define ' Chronopharmacology' and mention its advantages.
16. Describe the effect of environmental factors on animals.

**Section-C**

**Answer any TWO questions**

**(2 X 20 =40)**

17. Write an essay on the influence of biological clocks in the behaviours of animals.
18. Explain in detail:  
A). Ritualization B). Types of communication in animals  
C). Means of communication D). Reasons for communication.
19. Form an essay on Monohybrid and Dihybrid crosses with examples. Write down the four conclusions on Mendel's Experiment.
20. Write an essay on Animal Emotions and awareness.

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