



K20U 0159

Reg. No. : .....

Name : .....

**VI Semester B.Sc. Degree (CBCSS-Reg./Supple./Improv.)**

**Examination, April 2020**

**(2014 Admission Onwards)**

**Core Course in Zoology**

**6B 13 ZLG : ETHOLOGY, EVOLUTION AND ZOOGEOGRAPHY**

Time : 3 Hours

Max. Marks : 40

I. Answer **any one** of the following : (1×8=8)

- 1) Describe the social life of honey bees. Add a note on the merits and demerits of social groups.
- 2) Explain the evidences for organic evolution.

II. Answer **any one** of the following : (1×8=8)

- 3) Explain Lamarckism and enumerate the major criticisms against this theory of evolution.
- 4) Describe how hormones affect animal behaviour.

III. Answer **any two** of the following : (2×4=8)

- 5) Describe adaptive radiation. Mention an example.
- 6) Briefly explain the different types of geographical distribution of organisms.
- 7) Describe the role of pheromones in animal communication.
- 8) Differentiate trial and error learning and insightful learning. Give examples for each.

IV. Answer **any six** of the following : (6×2=12)

- 9) What are the faunal features of Australian realm ?
- 10) What is habituation ?
- 11) Define circadian rhythm. Mention an example.

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- 12) Mention any two concepts of Neo-Darwinism.
- 13) What are the significances of fossils ?
- 14) What is Batesian mimicry ?
- 15) What is neutral theory of evolution ?
- 16) What is imprinting ?

V. Answer the following questions in **a word** or **a sentence** : **(4x1=4)**

- 17) Taxis is \_\_\_\_\_
- 18) Clusters of organic molecules covered by water, which originated in the primordial soup are known as \_\_\_\_\_
- 19) Mutation theory of evolution was proposed by \_\_\_\_\_
- 20) According to Geological time scale, the present era is \_\_\_\_\_ era.