



K19U 0154

Reg. No. : .....

Name : .....

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

**Examination, April 2019**

**(2014 Admission Onwards)**

**CORE COURSE IN ZOOLOGY**

**6B13 ZLG : Ethology, Evolution and Zoogeography**

Time : 3 Hours

Marks : 40

I. Answer **any one** of the following.

(1×8=8)

- 1) Explain the postulates of Darwin's theory natural selection. What are the major criticisms against this theory ?
- 2) What is learning ? Describe the different types of learning, with suitable examples.

II. Answer **any one** of the following.

(1×8=8)

- 3) Explain the different kinds of geographical distribution of animals. List out any four factors that affect animal distribution.
- 4) Describe the types of communication in animals, giving examples for each.

III. Answer **any two** of the following.

(2×4=8)

- 5) What is migration ? What are the advantageous and disadvantages of migration ?
- 6) What are the embryological evidences for evolution ?
- 7) Explain Urey-Miller experiment and state its significance.
- 8) Describe the major features of an organized society.

IV. Answer **any six** of the following.

(6×2=12)

- 9) What are the factors affecting faunal diversity of islands ?
- 10) What is coevolution ?
- 11) Define species.
- 12) Mention any four functions of hypothalamus in regulation of behavior.

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- 13) What is punctuated equilibrium ?
- 14) What is circadian rhythm ?
- 15) What is fossil dating ? Mention one technique of fossil dating.
- 16) What is homing ?

V. Answer the following questions in a word or a sentence. (4×1=4)

- 17) Germplasm theory was proposed by \_\_\_\_\_
- 18) Biogeographically India comes under \_\_\_\_\_ region.
- 19) Sum total of genes in a breeding population is known as \_\_\_\_\_
- 20) Aestivation is \_\_\_\_\_