



K18U 0153

Reg. No. :

Name :

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

Examination, May 2018

CORE COURSE IN ZOOLOGY

6B13 ZLG : Ethology, Evolution and Zoogeography

(2014 Admn. Onwards)

Time : 3 Hours

Max. Marks : 40

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

- 1) Explain Lamarck's and Darwin's theories of Evolution.
- 2) Give a brief account on various types of Zoogeographical realms.

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

- 3) Explain the role of various hormones in behavior.
- 4) Give a brief account on modern concept of evolutionary forces.

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

- 5) Note on Oceanic Islands.
- 6) Explain about mimicry.
- 7) Describe on Morphological and Anatomical evidence of evolution.
- 8) Explain about social organization in honey bees.

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

- 9) Bipolar distribution.
- 10) Genetic drift.
- 11) Urey-Miller experiments.

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- 12) Adaptive radiation.
- 13) C-value paradox.
- 14) Darwin's finches.
- 15) Germplasm theory.
- 16) Bateson Mimicry.

V. Answer the following questions in a word or sentence :

(4×1=4)

- 17) Pheromones secreted by silk moth is
- 18) India belongs to _____ realm.
- 19) Industrial melanism is an example for
- 20) Golden age of reptiles is



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CORE COURSE IN ZOOLOGY

6B13ZLG : Ethology, Evolution and Zoogeography

Time : 3 Hours

Max. Marks : 40

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

(1×8=8)

- 1) Explain morphological, anatomical and paleontological evidences of evolution.
- 2) Give a brief account on various types of animal distribution.

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

(1×8=8)

- 3) Explain various types of learning.
- 4) Give a brief account on modern concept of evolutionary forces.

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

(2×4=8)

- 5) Note on oceanic Islands.
- 6) Explain about mimicry.
- 7) Describe on Lamarck's theory.
- 8) Explain about social organization in honey bees.

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

(6×2=12)

- 9) Circadian rhythm
- 10) Territorial behaviour
- 11) Urey-Miller experiments.
- 12) Adaptive radiation.
- 13) C-Value Paradox.

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- 14) Macro Evolution.
- 15) Germplasm theory.
- 16) Industrial Melanism.

V. Answer the following questions in a **word** or **sentence** :

(4x1=4)

- 17) Golden age of reptiles is _____.
- 18) India belongs to _____ realm.
- 19) The maximum no. of individuals of a species that a particular environment can support is called _____.
- 20) The study of fresh water habitat is _____.