



M 6591

Reg. No. :

Name :

II Semester B.Sc. Degree (CCSS – Reg./Supple./Improv.)

Examination, May 2014

CORE COURSE IN ZOOLOGY

2B02 ZLG : Evolution and Ethology

Time: 2 Hours

Max. Weightage : 16

I. Answer **any one** (weight 4) :

- 1) Describe morphological and anatomical evidences of evolution.
- 2) Define learning. Write an essay on various types of learning and their role in development and experiences of an individual. (1×4=4)

II. Answer **any three** (Weight 2 each) :

- 3) Explain the concept of social groups with special reference to honey bee colony.
- 4) Give a short account on the concept of molecular evolution.
- 5) Illustrate Deutsch's model of motivation.
- 6) Describe the role of hormones in behavior.
- 7) Explain Lamarckism and its criticisms. (3×2=6)

III. Answer **any four** (weight 1 each) :

- 8) What is adaptive radiation ?
- 9) Define mitochondrial Eve hypothesis.
- 10) Define species.
- 11) Describe natural selection.
- 12) What do you mean by geological time scale ?
- 13) What is Pb method ?
- 14) Describe hypothesis of punctuated evolution. (4×1=4)

P.T.O.



IV. Answer the following (weight 1 each) :

- 15) a) Conditioned reflex was demonstrated by _____
- b) Name a technique for fossil dating.
- c) Give an example for social groups in mammals.
- d) Mutations theory was proposed by _____

16) Match the following :

- | | |
|--------------------------|---------------|
| a) Neutralist hypothesis | Lamarckism |
| b) Industrial melanism | Deutsch |
| c) Insects | Peppered moth |
| d) Neck of Giraffe | Pheromones |
| | Motoo Kimura. |

(2×1=2)
