

Reg. No. :

Name :

II Semester B.Sc. Degree (CCSS – Supple./Improv.)
Examination, May 2015
(2013 and Earlier Admn.)
CORE COURSE IN ZOOLOGY
2B02 ZLG : Evolution and Ethology

Time : 2 Hours

Max. Weightage : 16

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

- 1) Describe physiological and biochemical evidences of evolution.
- 2) Write an essay on various forces contributing to evolution. **(1×4=4)**

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

- 3) Explain adaptive radiation with example.
- 4) Give an account on Darwin's theory of natural selection.
- 5) Distinguish between insight learning and latent learning.
- 6) Explain motivation and Lorenz's model.
- 7) Describe advantages and disadvantages of social groups among animals. **(3×2=6)**

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

- 8) What is conditioned reflex ?
- 9) What is genetic drift ?
- 10) What is C14 method of fossil dating ?
- 11) What is mitochondrial Eve hypothesis ?
- 12) Describe gene flow.
- 13) What is Oparin concept ?
- 14) Define mutation. **(4×1=4)**



IV. Answer the following :

(Weight 1 each)

- 15) a) Name a type of pre-zygotic reproductive isolation.
- b) Give an example for homologous organs.
- c) Pb method is used for _____
- d) Elongated neck of Giraffe was pointed out example for use theory was proposed by _____

16) Match the following :

- | | |
|--------------------------|--------------|
| a) Pheromones | Weismann |
| b) Natural selection | Lorenz |
| c) Neutralist hypothesis | Insects |
| d) Germplasm theory | Motoo Kimura |
| | Darwin |

(2x1=2)
