



K16U 1121

Reg. No. :

Name :

**II Semester B.Sc. Degree (CCSS – Supple./Improv.) Examination, May 2016
(2013 and Earlier Adm.)**

**CORE COURSE IN ZOOLOGY
2B02 ZLG : Evolution and Ethology**

Time : 2 Hours

Total Weight : 16

I. Answer **any one** of the following : **(4 Weightage)**

1) Give an account on Darwin's theory of natural selection. Also comment on its criticisms.

2) Describe the different types of learning. **(1×4=4)**

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

3) Explain adaptive radiation with special reference to Darwin's finches.

4) Describe Urey-Miller experiment.

5) Explain Deutsch's model of motivation.

6) What are the advantages and disadvantages of social grouping ?

7) What is Hardy – Weinberg equilibrium ? Mention its significance. **(3×2=6)**

III. Answer **any four** of the following : **(1 Weightage each)**

8) Mention the main features of Lamarckism.

9) What is industrial melanism ?

10) What is mitochondrial eve hypothesis ?

11) Explain the role of hypothalamus in controlling behaviour.

12) Define species.

13) Comment on insect societies.

14) What is fossil dating ? **(4×1=4)**

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IV. Answer the following :

(1 Weightage each)

15) Match the following :

- | | |
|--------------------|--------------------|
| a) Weisman | Imprinting |
| b) Vestigial organ | Reptiles |
| c) Lorenz | Vermiform appendix |
| d) Jurassic period | Germplasm |
| | Mutation |

16) Write **one** word for the following :

- The origin of species was written by
- An example for homologous organ
- The language of bees
- Origin of man took place in which era ?

(2x1=2)