



M 7787

Reg. No. :

Name :

I Semester B.Sc. Degree (CCSS – Supple./Improv.)
Examination, November 2014
(2013 and Earlier Admn.)
CORE COURSE IN ZOOLOGY
1B01 ZLG : Methodology and Perspectives of Science

Time : 3 Hours

Total Weight : 16

- I. Essay (Answer any one) : (Weight – 4)
- 1) Briefly describe taxonomy.
 - 2) Describe the steps involved in the preparation of biological specimens. (1×4=4)
- II. Short essay (Answer any three) : (Weight – 2)
- 3) Explain hypothetico – deductive model in formulating a hypothesis.
 - 4) What is industrial revolution ? Explain its importance in scientific world.
 - 5) Describe the procedure for drosophila culture.
 - 6) Explain the principles of nomenclature.
 - 7) Write notes on molecular taxonomy. (3×2=6)
- III. Short answers (Answer any four) : (Weight – 1)
- 8) Comment on species concept.
 - 9) Mention the role of IUZN.
 - 10) Write down the significance of taxonomic key.
 - 11) Comment on the importance of patent.
 - 12) What is histogram ?
 - 13) Comment on standard deviation.
 - 14) Site the goals of green revolution. (4×1=4)

P.T.O.



IV. Answer the following :

(Weight – 1)

15) Match the following :

- | | |
|-------------------|---------------------|
| a) Histogram | agar |
| b) Taxonomy | nomenclature |
| c) Culture medium | data representation |
| d) ICZN | Linnaeus |

16) State whether the statements are **true** or **false** :

- Data collection is a part of Experimentation in Science.
- Students 't' test is a test for detection of abnormal constituents in urine.
- Taxa is a component in Linnaean classification.
- Experimental design is the design and analysis of experiments. (2×1=2)