

6. What are CCSEA guidelines concerning maintenance of physical facilities, environment, animal husbandry, sanitation and waste disposal for laboratory animals.

15

7. Short notes on (any **three**): $3 \times 5 = 15$

- (a) Acknowledgement
- (b) Research grants
- (c) Types of sample design
- (d) Copyright
- (e) Poster presentation

[This question paper contains 4 printed pages]

Your Roll No. :

Sl. No. of Q. Paper : **269** **I**

Unique Paper Code : 2233010017

Name of the Paper : DSE-Research
Methodology

Name of the Course : **B.Sc. (H) Zoology/B.Sc
(P) Life Sciences
(NEP-UGCF)**

Semester : VI

Time : 3 Hours **Maximum Marks : 90**

Instructions for Candidates :

- (a) Write your Roll No. on the top immediately on receipt of this question paper.
- (b) Attempt **five** questions in all, including Question No. **1** which is compulsory.

1. (a) Define the following : 5

- (i) Commercialization
- (ii) Trademark
- (iii) Prediction
- (iv) Patent
- (v) Keywords

- (b) Expand the following abbreviations: 5
- (i) ISSN
 - (ii) APA style
 - (iii) IPR
 - (iv) TRIPS
 - (v) DBT
- (c) Differentiate between the following: 15
- (i) Qualitative analysis and Quantitative analysis
 - (ii) Anaesthesia and Euthanasia
 - (iii) Index and Appendix
 - (vi) Bibliography and References
 - (v) Primary data and Secondary data
- (d) Give one word for the following statements : 5
- (i) Hypothesis that proposes that there is no effect, relationship or difference. between variables or groups in a study.
 - (ii) Literature review organised by publication date or history of the topic.
 - (iii) Dedicated section that credits individuals or funding bodies at the end of research paper.

- (iv) Copying someone's work without giving credit.
 - (v) Legal right of creators over reproduction, distribution and adaptation of their original work.
- 2.** (a) Explain different types of research with suitable examples. Elucidate the features of good research design? 8
- (b) Discuss different ways of displaying or presenting data using digital tools. 7
- 3.** Discuss the process of developing a research plan including problem identification and experimentation. 15
- 4.** (a) Explain the key aspects of patent laws in India. Also highlights the benefits of patent laws in research and innovations. 10
- (b) Write short note on Intellectual Property Rights. 5
- 5.** (a) What is the role of literature review in identifying the research gaps. Elucidate the main steps involved in review writing. 10
- (b) Describe different types of plagiarism with suitable examples. 5