

4. Describe the different steps involved in sampling design. Explain the criteria for selecting a sampling procedure. (15)
5. Describe various research techniques used in conducting quantitative research in zoology. (15)
6. (a) Describe various types of formal experimental designs. (15)
- (b) Explain different components of research design with the help of a flow diagram. (6)
7. Write short notes (Any Three) : (15)
- (i) Research Grant.
- (ii) Authorship and contribution in a research paper.
- (iii) Referencing software.
- (iv) Objective of research.
- (v) Processing and analysis of data.

(1200)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 10394

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Unique Paper Code : 2233010017

Name of the Paper : DSE-17, Research Methodology
for Zoology

Name of the Course : B.Sc. (H) Zoology, (NEP-
UGC F 2022)

Semester : VII (DSE-19)

Duration : 3 Hours

Maximum Marks : 90

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any **five** questions in all, including Question No. 1 which is compulsory.

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1. (a) Define the following : (5)
 - (i) Conflict of interest
 - (ii) Appendix
 - (iii) Plagiarism
 - (iv) Acknowledgment
 - (v) Impact factor
- (b) Expand the following abbreviations : (5)
 - (i) IPR
 - (ii) CCSEA
 - (iii) ISBN
 - (iv) WIPO
 - (v) ICMR
- (c) True or false (5)
 - (i) Commercialization refers to converting research results into usable products.
 - (ii) Sampling allows researchers to study the entire population.
 - (iii) Data manipulation refers to organizing and transforming data to make it suitable for analysis.

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- (iv) Peer reviewers are allowed to share unpublished manuscripts with others.
 - (v) Literature review helps identify gaps in existing research.
- (d) Differentiate between the following : (15)
 - (i) Fundamental and applied research in zoology.
 - (ii) Reference and bibliography.
 - (iii) Copyright and trademark.
 - (iv) Oral and poster presentation.
 - (v) Applied and industrial research.
2. (a) Define Good Laboratory Practice (GLP). Explain its importance in scientific research. (6)
- (b) Discuss the different methods of presenting data with suitable examples. (9)
3. (a) Describe the common errors in experimentation, and how to minimise them. (10)
- (b) Define royalty. Explain its importance in protecting intellectual property. (5)

P.T.O.