

This question paper contains 3 printed pages]

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S. No. of Question Paper : 8059

Unique Paper Code : 2233010017

Name of the Paper : DSE-Research Methodology

Name of the Course : B.Sc. (Hons.) Zoology

Semester : VI (NEP-UGCF)

Duration : 3 Hours

Maximum Marks : 90

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt *five* questions in all, including Question Number 1,

which is compulsory.

1. (a) Define the following :

5

(i) Research

(ii) Trademark

(iii) Commercialization

(iv) References

(v) Abstract.

(b) Expand the following abbreviations :

5

(i) APA style

(ii) WIPO

(iii) CCSEA

(iv) PCT

(v) DOI.

P.T.O.

- (c) Differentiate between the following : 15
- (i) Primary data and Secondary data
 - (ii) Research methods and Research methodology
 - (iii) Research paper and review article
 - (iv) Index & Appendix
 - (v) Systematic sampling and Stratified sampling.
- (d) True or false : 5
- (i) Paraphrasing means rewriting, what someone else has written in your own words.
 - (ii) Acknowledging the source with a reference and placing the words in quotation marks is required, if you use someone else's exact words.
 - (iii) Patents are valid for a lifetime.
 - (iv) Open-access journals allow free access to research papers.
 - (v) Research fellowships are awarded based on academic merit.
2. Describe the CCSEA guidelines for the care and handling of laboratory animals. 15
3. (a) What is intellectual property and why should we protect it ? 5
- (b) Write notes on copyrights and patent laws. 10

4. (a) Describe the various types of research. 12
(b) Write a note on oral presentation. 3
5. Describe the various probability sampling and non-probability sampling methods with suitable examples. 15
6. (a) Define the term plagiarism. Write a note on the various types of plagiarism. 8
(b) Define the term citation. Why is citing sources important in research ? 7
7. Write short notes on (any *three*) : 3×5=15
 - (a) Acknowledgement (Research paper/Review article)
 - (b) Research grants
 - (c) Benefits of using plagiarism detection tools
 - (d) Fellowships
 - (e) Data presentation using digital tools (any *two*).

