

**Indian Statistical Institute**  
**Documentation Research and Training Centre**  
**MS(LIS) 2022-24, Semester III**  
**Paper 14: Elements of Statistics and Research Methodology**  
**Date: 22/09/2023**

**Time: 11.30 - 13.00**

**Maximum Marks: 40**

**Note: Read the instructions carefully. The Question Paper consists of three parts A, B and C.**

**Part A: Attempt all questions. Each question carries one mark each. (10)**

1. How to judge the depth of any research?

- A. By research title
- B. By research duration
- C. By research objectives
- D. By total expenditure on research

2. Which of the following is not the method of Research?

- A. Survey
- B. Historical
- C. Observation
- D. Philosophical

3. What is the main role of research in education?

- A. To uplift one's social status.
- B. To increase one's job prospects.
- C. To augment one's personal growth.
- D. To help an applicant in becoming a renowned educationist.

4. In order to pursue the research, which of the following is priorly required?

- A. Developing a research design
- B. Formulating a research question
- C. Deciding about the data analysis procedure

D. Formulating a research hypothesis

5. Research is \_\_\_\_\_

- A. Searching again and again
- B. Finding solution to any problem
- C. Working in a scientific way to search for truth of any problem
- D. None of the above

6. What are the core elements of a Research Process?

- A. Introduction; Data Collection; Data Analysis; Conclusions and Recommendations
- B. Executive Summary; Literature Review; Data Gathered; Conclusions; Bibliography
- C. Research Plan; Research Data; Analysis; References
- D. Introduction; Literature Review; Research Methodology; Results; Discussions and Conclusions

7. Research and Development become the index of development of the country. Which of the following reasons are true with regards to this statement?

- A. R&D targets human development
- B. R&D can enhance people's standard of living in the country
- C. R&D reflects the actual economic and social conditions being prevailed in the country
- D. All the above

8. What does the longitudinal research approach actually deal with?

- A. Long-term research
- B. Short-term research
- C. Horizontal research
- D. None of the above

9. Which research method focuses more on the "what" of the research subject than the "why" of the research subject?

Descriptive Research

10. Which of the following does not correspond to characteristics of research?

- A. Research is not passive
- B. Research is systematic
- C. Research is not a problem-oriented
- D. Research is not a process

**Part B: Attempt any Two questions.**

**(5+5)**

1. <sup>Why</sup> ~~What~~ do we need to conduct the research?
2. What are the different types of Experimental Research Design?
3. Write the different steps for conducting Action Research with examples.

**Part C: Attempt any Two questions.**

**(10+10)**

1. Examine various data types utilised in research. Discuss distinct measurement scales using appropriate examples.
2. What is Research? What are the different types of Research? Explain.
3. What is Basic and Applied Research? State the difference between Basic and Applied research.