

MLI 1st Semester Examination, 2024

**MASTER OF LIBRARY AND
INFORMATION SCIENCE**

(Research Methodology)

PAPER – MLI-109

Full Marks : 50

Time : 2 hours

Answer all questions

The figures in the right hand margin indicate marks

*Candidates are required to give their answers in their
own words as far as practicable*

GROUP – A

Answer any four of the following questions :

5 × 4

- 1. Discuss the differences between theoretical research and empirical research.**

(Turn Over)

2. Discuss the importance of literature review in research.
3. Define snowball sampling and stratified random sampling. $2\frac{1}{2} + 2\frac{1}{2}$
4. Discuss briefly questionnaire method of data collection.
5. Enumerate different steps of research design.
6. What is research hypothesis ? Enumerate different types of research hypothesis. $2 + 3$

GROUP – B

Answer any **two** of the following questions : 10×2

7. Describe the steps involved in research process.
8. (a) Indicate the type of research with appropriate reasoning for the following research titles :

- (i) Scientometric analysis of research in brain cancer in India from 2015 to 2024
 - (ii) Spectroscopic analysis of cool stars and brown dwarf stars
 - (iii) Study of application of mathematical concept in Ranganathan's theory of faceted classification
 - (iv) Simulation of protein synthesis for genetic engineering
 - (v) An analytical study of sociological implication of the literary works of Ashapura Devi
- (b) Briefly discuss different components of a research report. 5 + 5

9. (a) Indicate the method of sampling for data collection with appropriate reasons for the following research titles :

(4)

- (i) Documentation of indigenous knowledge on medicinal plant by Lodha community of West Bengal.
 - (ii) Study of the condition of the disease Dengue in Midnapore municipal area.
 - (iii) Measuring air pollution level during daytime in Kolkata municipal corporation area.
 - (iv) Study of depression and anxiety level of drug-addicted students of Kolkata.
 - (v) Readership analysis of the public library users in Paschim Medinipur district.
- (b) Explain briefly different types of non-probability sampling methods. 5 + 5

(5)

10. (a) Discuss the role of Council of Scientific and Industrial Research (CSIR) in promoting Research & Development (R & D) in India.

(b) Enumerate the criteria of good research.

7 + 3

[Internal Assessment — 10 Marks]

