

M.Lib.I.Sc. 1st Semester Examination, 2023

**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. Distinguish between 'Research method' and 'Research methodology'. State fundamental objectives of research. 2 + 3

(Turn Over)

2. Draw a comparative study between 'Theoretical research' and 'Empirical research'.
3. Define 'Independent variable', 'Dependent variable', 'Confounded relationship' and 'Extraneous variable' in the context of research design.
4. Discuss the importance of 'Literature review' in research.
5. Describe the 'Questionnaire technique' for collection of data.
6. Discuss different types of random sampling.

GROUP - B

Answer any two of the following questions :

10 × 2

7. Explain how inductive reasoning and deductive reasoning methods are applied in Ranganathan's spiral of scientific method. Define 'Snowball sampling' and 'Quota sampling'. 5 + 5
8. Describe the steps involved in research process.
9. (a) State with reasons the type of research for any four of the following titles : $1\frac{1}{2} \times 4$
- (i) The impact of environmental pollution on Dengue-affected people in Midnapore Municipal Area : a study on 5000 people.
 - (ii) An RNA-Sequence analysis of Coronavirus in the skin of the rats.
 - (iii) Genesis and development of Indian physics and astrophysics periodicals from 1924 to 2023 : a study

(iv) Ranganathan's analysis of concept of subject and subject classification in the light of mathematical theories : a critical study.

(v) Developing a Faceted Classification System for innovation in the construction industry.

(b) Distinguish between 'Interview method' and 'Observation method' for collection of data.

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10. (a) State which types of sampling methods should be adopted in any *four* of the following cases : 1 × 4

(i) To study the quantities of Nitrogen-di-oxide and Sulphur-di-oxide in the air of Kolkata at different times in a day

(ii) To study the impact of Instagram on post-graduate library and information science students of Vidyasagar University.

- (iii) To study the socio-economic background of the drug-addicted people residing in Howrah Municipal Area.
 - (iv) To study the economic conditions of the people living in the towns of Purba Medinipur district.
 - (v) To study the traditional medicines and healing practices among the tribal communities of Jhargram district.
- (b) Define, with examples, 'Ethnographic research' and 'Action research'. 6

[Internal Assessment — 10 Marks]
