Indian Statistical Institute, Bangalore
Documentation Research and Training Centre

MS (LIS) 2024-2026 Semester III
Paper 14: Research Methodology and Technical Writing

Duration: 3 Hours 14/11/2025 **Maximum Marks:** 100

Part A – Descriptive / Essay Type Questions 16 X5 =80

1. Discuss the **importance of research** in social sciences. Explain its **implications** for policy formulation and academic development.
2. 6. Define **research design**. Discuss the steps involved in **formulating a research problem** and explain how a well-designed research framework improves the quality of outcomes.
3. Explain the concept of **research ethics**. How does adherence to **publication ethics** uphold **academic integrity** in scholarly communication?
4. Describe the **different methods of data collection** used in social science research. Evaluate their advantages and limitations with suitable examples.
5. Define **technical communication**. Discuss its importance in research with reference to **Shannon's Theory of Communication**.
6. What is the **review of literature**? Explain its **role, purpose, and structure** in the research process. Provide examples of how it helps in identifying research gaps.
7. Differentiate between qualitative and quantitative research.

Part B – Short Answer Questions *(Attempt any Two carries 10 marks)*

1. Define hypothesis and distinguish between null and alternative hypotheses.
2. What are **statistical techniques**? Explain the application of **ANOVA** and **t-test** in
3. Write short notes on:
   (a) Primary data   (b) Secondary data
4. citation and referencing styles in academic writing.