1590

MLIS / I Sem.   J

Paper M–105: RESEARCH METHODOLOGY

Time : 3 hours   *Maximum Marks :* 70

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

Attempt all questions.

1. Either, 1–1. What do you understand by the term research? Explain the important characteristics of research. Discuss the need and purpose of research in LIS by giving suitable examples.

Or, 1–2. What do you understand by Scientific Method of research? Discuss the application of Scientific Method of research in LIS by giving suitable examples. 12½

2. Either, 2–1. 'Questionnaire is the most economic tool to collect data from widely scattered population.' Discuss. Explain the characteristics of a good questionnaire.

P. T. O.

Or, 2–2.   Discuss the application of Inferential and Descriptive Statistics in Library and Information Science Research. $12_{1/2}$

3. **Either, 3–1.**   Discuss the significance of Measures of Central Tendency used in statistical analysis. Calculate the Arithmetic Mean, Mode and Median value for the given data:

Marks	38	50	60	80
Students	08	15	20	07

Or, 3–2.   Define and differentiate between the concepts of Bibliometrics, Scientometrics and Webometrics. Describe in detail the Lotka's Law of Scientific Productivity. $12_{1/2}$

4. **Either, 4–1.**   What is Literature Review? Discuss the process of Literature Review in conducting the research in LIS.

Or, 4–2.   What do you understand by Data Analysis? Discuss the steps of Data Analysis using Statistical Package for Social Sciences (SPSS) for this purpose.

$12_{1/2}$

5. Write notes on any **four** of the following:

   (i) Pilot Study

(*ii*) Null Hypothosis

(*iii*) Impact factor

(*iv*) Primary and Secondary Data

(*v*) Time Series Analysis

(*vi*) Report Writing. $4 \times 5 = 20$