(1) A) Tick mark the correct answer: [10]

a) If we apply Delfi Method of research in library and information sciences, what will be the results?
   i) It will present a tentative solution.
   ii) It will solve the problems.
   iii) It will help in the administration.
   iv) It will predict future developments.

b) The use of principles of Mathematics and Statistics in the field of library and information science is called ______.
   i) Bibliometry
   ii) Biometry
   iii) Librametry
   iv) Librachine

c) The steps of writing research report should be based on ______.
   i) Principles of administration
   ii) Principles of organisation
   iii) Principles of organisation and presentation
   iv) Principle of management

d) “Law of least resistance” was proposed by ______.
   i) Zipf
   ii) Bradford
   iii) Lotka
   iv) Pritchard
e) The variables which are measurable and objectively verifiable are known as _____.
   i) Quantitative
   ii) Qualitative
   iii) Collective
   iv) Numerical

f) The Scientometrics is an application of _____.
   i) Qualitative method
   ii) Quantitative method
   iii) Both (i) & (ii)
   iv) None

g) SPSS software for Statistical analysis is meant for _____.
   i) Management
   ii) Psychology
   iii) Humanities
   iv) Social Sciences

h) Regression Analysis is a statistical _____.
   i) Method
   ii) Technique
   iii) Tool
   iv) Process

i) A complete list of all sampling units from which a sample is selected is called _____.
   i) Sample unit
   ii) Sample universe
   iii) Sampling frame
   iv) Sample population

j) The t-test is applied when the sample series is _____.
   i) Small
   ii) Big
   iii) Enormous
   iv) Voluminous

B) Answer the following questions in one or two sentences:

a) Define median.

b) What is the full form of SPSS?

c) What is a regression equation?

d) What are the two forms of t-test?

e) What is the purpose of IDAMS package?

f) Define ‘bar chart’.

g) What are the kinds of Bibliometric studies?
h) What is a citation?

i) When the t-test is applied?

j) What are the four stages of research report?

Q2) Discuss the current trends in library and information science research. [20]

OR

Write a detailed note on data presentation techniques.

Q3) Explain how SPSS and IDMAS statistical packages are useful for analysis and interpretation of data. [20]

OR

Explain the methods of citation for books and journal articles as stated in Chicago, APA and MLA style manuals.

Q4) Write short notes (any four): [20]

a) Sampling methods

b) Chi square test.

c) Regression linear and non-linear.

d) Mean, Mode, Median.

e) Inferential Statistics.

f) Bradford’s law.