

**MASTER OF LIBRARY AND INFORMATION SCIENCE  
(DIGITAL LIBRARY) EXAMINATION, 2019**

(4th Semester)

**Quantitative Methods**

**Paper : MLDL - 6.4**

Time : Two hours

Full Marks : 40

Answer *all* questions.

- 1A. (a) What are meant by Skewness? 1.5  
 (b) How do you measure the degree of skewness? Illustrate. 4.5  
 (c) Show the respective positions of Mean, Median and Mode in a Positively skewed, Negatively skewed and Symmetrical distributions. 3  
 (d) Write a brief note on Standard Normal Distribution. 6

***OR***

- 1B. (a) The stock and daily issues of ten libraries in Kolkata are given below :

Stock (in thousands)	Daily issues
1.1	30
7.5	90
4.0	65
8.0	150
9.0	80

(Turn Over)

(2)

2.0	60
3.5	50
9.5	160
4.5	100
14.0	250

Find the product-moment correlation co-efficient for the above stock and daily issues. 7.5

(b) Librarian of a library wants to find a measure which he can use to fix the monthly wages of persons applying for a job in a technical department. As an experimental project, he collected data about 7 persons from that department e.g., their length of service and their monthly income :

Years of service (X) :	11	7	9	5	8	6	10
Income (in '00 Rs.) (Y) :	10	8	6	5	9	7	11

Using it what initial start would you recommend for a job after having served in similar capacity in another library for 13 years. 7.5

- 2A. (a) Why is Work Study needed? 3
- (b) Discuss in detail the basic procedure followed in a Method Study. 12

(3)

**OR**

2B. Narrate briefly the journey from Librametry to Altmetrics. 15

3. Write short notes on any **two** of the following : 5x2=10
- (a) Parametric and Non-Parametric tests
  - (b) CPM vs PERT
  - (c) Scatter diagram
  - (d) OR-meaning and the process

— X —