

**MASTER OF LIBRARY AND
INFORMATION SCIENCE (Revised)**

Term-End Examination

December, 2007

**MLIE-105 : INFORMETRICS AND
SCIENTOMETRICS**

Important Instruction : *This question paper should be attempted only by those candidates who have registered for MLIS from July, 2005 and onwards.*

Time : 3 hours

Maximum Marks : 100

Note : *Attempt **all** questions. All questions carry equal marks. Illustrate your answers with suitable examples and diagrams, wherever necessary. Write relevant question number before writing the answer.*

1.1 Define Information and discuss the status of the concept of information. What are the approaches towards information ?

OR

1.2 What is Sociology of Science ? Discuss its domain and different approaches.

2.1 Discuss the Bradford's Law of Scattering and mention some of its applications in libraries.

OR

2.2 Discuss genesis, scope, definition and applications of Scientometrics.

3.1 What are the limitations of Gross's and Brown's methods of grading scientific periodicals ? Discuss Sengupta's method to eliminate these limitations.

OR

3.2 Define users studies and state their purposes. Mention different methods employed to conduct users studies.

4.1 What is meant by scientific productivity ? Discuss the factors that influence scientific productivity and the problems faced in its measurement.

OR

4.2 Discuss 'data' along with different levels of measurement scales.

5.0 Write short notes on any **three** of the following (in about 300 words each) :

- (a) Reliability and validity of information
- (b) Informativeness and its properties
- (c) Multicollinearity
- (d) Librametrics
- (e) Hierarchical Cluster Analysis