MASTER OF LIBRARY AND INFORMATION SCIENCE (Revised)

Term-End Examination

December, 2006

MLIE-105 : INFORMETRICS AND SCIENTOMETRICS

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 Explain the concept of informativeness and the use of informativeness measures in Library and Information Science.

OR

1.2 What is meant by sociology of science ? Discuss different approaches to the study of sociology of science.

2.1 Discuss the importance of citation analysis in scientometric studies.

OR

2.2 Describe the techniques of organizing numerical data using frequency distribution method.

3.1 What are the factors that influence scientific productivity of authors ? Describe the problems in the measurement of scientific productivity.

OR

3.2 Describe the functions of S & T indicators. Discuss its use and importance in the context of developing countries.

4.1 (a) Examine the relationship between counting, classification and measurement.

(b) Calculate the Mean, Median and Mode of the numbers 2, 4 and 7.

OR

4.2 Explain the need for data reduction in bibliometric studies. Describe the objectives of cluster analysis and its different methods.

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

(a) Subfields of informetrics

(b) Bradford's Law and its applications

(c) Gross's method of ranking of scientific periodicals

(d) Chi-square test

(e) Co-efficient of variation