POST GRADUATE DIPLOMA IN LIBRARY AUTOMATION AND NETWORKING (PGDLAN)

Term-End Examination

December, 2013

MLI-003 : INFORMATION SYSTEMS

Time : 2 hours   *Maximum Marks : 50*

(Weightage : 40%)

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

1.1 Define the term 'System'. Explain the process of system analysis and role of a systems analyst.

OR

1.2 What do you understand by system development cycle ? Explain the stages involved in system development.

2.1 What is an expert system ? Discuss its main components and methods of knowledge representation.

OR

2.2 What is the need for MIS ? Explain the process of implementation, evaluation and maintenance of an MIS.

3.1 Discuss different data models. What are the criteria for a DBMS to be relational ?

OR

3.2 What do you understand by normalization of relations ? Discuss its significance in database design. Explain third normal form.

4.1 What is a transaction ? Explain the serial or concurrent executions of transactions and their role in database maintenance

OR

4.2 Explain the architecture of a distributed database system. What are the justifications and options for distributing data ?

5.0 Write short notes on **any two** of the following (in about **250** words each) :

(a) Boolean operators

(b) Flow charts

(c) Indexes

(d) Digital libraries and their uses