00185

POST GRADUATE DIPLOMA IN LIBRARY AUTOMATION AND NETWORKING (PGDLAN)

Term-End Examination

December, 2014

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 What are the procedural components of systems analysis ? Draw a flowchart illustrating its use as a tool in the process of systems analysis.

OR

1.2 What do you understand by system development cycle ? Discuss different stages involved in system development.

2.1 Why there is a need for MIS ? Discuss the tasks related to implementation, evaluation and maintenance of an MIS.

OR

2.2 What is an expert system ? Explain the structure of an expert system with illustration.

3.1 Describe the architecture of a Database Management System (DBMS) with illustration. Explain the purpose of views in the database architecture.

OR

3.2 What are the criteria for a DBMS to be relational ? Discuss different types of keys and their functions.

4.1 Discuss the general strategies for query optimization. Explain the role of Join operator in query formulation.

OR

4.2 What are Boolean operators ? Explain their use with suitable examples.

5.0 Write short notes on **any two** of the following (in about **250 words** each) :
   (a)   Structured Query Language (SQL)
   (b)   Data models
   (c)   Artificial intelligence
   (d)   Distributed database systems