MLI-003

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POST GRADUATE DIPLOMA IN LIBRARY AUTOMATION AND NETWORKING (PGDLAN)

Term-End Examination

December, 2018

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 Explain the steps involved in system design. Describe the principles of a well-designed system.

OR

1.2 What are the different data models ? Explain with illustration the network model.

2.1 What is Database Management System (DBMS) ? Discuss the functions and components of a DBMS.

OR

2.2 What do you understand by normalization of relations ? Explain the steps involved in designing databases.

3.1 Define a Management Information System. Discuss its design and development.

OR

3.2 What is a transaction ? Explain serial and concurrent execution of transactions and their role in database maintenance.

4.1 Describe in brief Data Definition Language (DDL) and Data Manipulation Language (DML).

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) Artificial intelligence

(b) Data warehousing and data mining

(c) Recall and precision

(d) Keys in query language