MLI-003

POST GRADUATE DIPLOMA IN LIBRARY AUTOMATION AND NETWORKING (PGDLAN)

Term-End Examination

June, 2020

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 writing the answer.

1. What is an information system ? Discuss its different types.   10

Or

Explain the criteria for evaluation of an information retrieval system.

2. Define a decision support system (DSS). Illustrate the structure of a DSS and discuss its components.   10

Or

Enumerate the characteristics of a relation. Discuss second normal form with an example.

3. Describe the steps involved in designing a database. Explain entity-relationship model and its role in database design process.   10

Or

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

4. Discuss the general strategies for query optimization. Explain the role of Join operator in query formalization.   10

Or

Describe in brief data definition language (DDL) and data manipulation language (DML).

5. Write short notes on any *two* of the following (in about *250* words each) : 10

(a) Role of a system analyst

(b) Characteristics of digital libraries

(c) Memory hierarchy

(d) Architecture of a DBMS

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