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MLI-003

**POST GRADUATE DIPLOMA IN
LIBRARY AUTOMATION AND
NETWORKING (PGDLAN)**

Term-End Examination

June, 2021

MLI-003 : INFORMATION SYSTEMS

Time : 2 Hours

Maximum Marks : 50

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 ? Describe its different types.

Or

Describe the basic phases of a system life cycle. Discuss the various stages of system development.

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2. What do you understand by 'Search Strategy' ? Describe different types of search tools for organizing information.

Or

Discuss the process of database development and its organization.

3. What is 'Decision Support System' (DSS) ? Explain the structural components of a DSS.

Or

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

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

Or

What is a Venn diagram ? Explain Boolean operators using Venn diagrams.

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

- (a) Entropy
- (b) Range search
- (c) Metadata
- (d) Memory hierarchy