

POST GRADUATE DIPLOMA IN LIBRARY AUTOMATION AND
NETWORKING (PGDLAN)

Term-End Examination

December, 2019

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.

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

OR

1.2 Distinguish between known item and unknown item search. Describe the different types of unknown item searches.

2.1 What is an expert system ? Explain the structure of an expert system with illustrations.

OR

2.2 Enumerate the different types of DBMS. Describe RDBMS.

3.1 Discuss the cost of operators SELECT, PROJECT and JOIN in the structured query formulation.

OR

3.2 Discuss hierarchical, network and relational data models with illustrations.

4.1 Distinguish between file organisation and access methods. Describe different file access methods.

OR

4.2 What is a Venn diagram ? Explain Boolean Operators using Venn diagrams.

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

- (a) Need of MIS
- (b) Inverted Lists
- (c) Artificial Intelligence
- (d) Proximity Operators