

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

00493

**Term-End Examination**

**June, 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 answering.*

---

1.1. What do you understand by the term 'Systems approach' ? Discuss the main components of a system.

**OR**

1.2. Discuss the different search strategies employed in bibliographic information retrieval environment and list the basic search tools used in such an environment.

2.1. Discuss the information retrieval models based on theories and tools.

**OR**

2.2. Explain the criteria for evaluation of an information retrieval system.

3.1. Explain E-R diagram and its role in data modelling.

OR

3.2. Discuss the concept of "expert-system". Explain the steps involved in its construction.

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

OR

4.2. Explain the architecture of a distributed database system. What are the justifications and options for distributing data ?

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

- (a) Database Management System (DBMS)
- (b) Memory Hierarchy
- (c) Normalization of Relations
- (d) Structured Query Language (SQL)

---