POST GRADUATE DIPLOMA IN
LIBRARY AUTOMATION AND
NETWORKING (PGDLAN)

JO45O   **Term-End Examination**

December, 2015

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 principles and process of system
design.

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

OR

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

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

OR

3.2 Define a Decision Support System (DSS). Illustrate its structure and discuss the components.

4.1 What is artificial intelligence ? Discuss its areas of application.

OR

4.2 Explain the use of Boolean operators in searching, using Venn diagrams.

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

(a)   Normalization of Relations

(b)   Memory Hierarchy

(c)   Structured Query Language

(d)   Inverted Lists

———