

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

**Term-End Examination**

**June, 2013**

**MLI-003 : INFORMATION SYSTEMS**

*Time : 2 hours*

*Maximum Marks : 50*

*(Weightage : 40%)*

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*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.*

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1.1 Discuss the basics of general systems theory. List some important facts of systems approach.

**OR**

1.2 Explain the process of system implementation.

2.1 Differentiate between 'known-item search' and 'unknown-item search'. Discuss the different methods of 'unknown-item search'.

**OR**

2.2 'The conceptualisation of the database management system starts with the definition of schema'. Explain the statement bringing out clearly the importance of logical schema and a physical schema.

3.1 Discuss the concept of “expert system”. Explain the steps involved in its construction.

**OR**

3.2 Discuss the important points to be considered in developing a digital library.

4.1 Explain the architecture of a distributed database. Discuss the justifications and options for distributing data.

**OR**

4.2 Discuss the general strategies for query optimization.

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

(a) Data definition language (DDL)

(b) Normal forms

(c) Digital library

(d) Decision support system

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