00342

POST GRADUATE DIPLOMA IN LIBRARY AUTOMATION AND NETWORKING (PGDLAN)

Term-End Examination

December, 2016

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   Define a 'system'. What are the major components of a 'system' ? Describe role of each of these components.   **2+8=10**

OR

1.2   What is an 'information system' ? Discuss the use of General Systems Theory in designing an 'information system'.   **2+8=10**

2.1   Define Normalization. Why is it required ? Explain different 'forms of normalization' with example.   **1½+1½+7**

OR

2.2 Differentiate between 'data definition language' **4+6** and 'data manipulation language'. Explain with the help of an example, the following commands of RDBMS :

(a) CREATE

(b) INSERT

(c) UPDATE

3.1 Explain the role of DBMS as decision support tool. **4+6** Illustrate the architecture of distributed database systems.

OR

3.2 Make a comparative study of 'data retrieval' and **6+4** 'information retrieval'. Describe the 'user model' in information retrieval.

4.1 What is 'Boolean Search' ? Explain the 'AND **2+8** gate' and 'OR gate' with suitable examples.

OR

4.2 Define a Data structure. Make a comparison **2+8** between 'Linked Lists' and 'Inverted Lists'.

5.0 Write short notes on **any two** of the following **5+5** (in about **250** words each) :

(a) Expert system

(b) Flow charting and its symbols

(c) Data mining

(d) Object-oriented data model.