MASTER OF LIBRARY & INFORMATION SCIENCE EXAMINATION, 2018

(2nd Semester)

ICT, Library Automation & Digital Library Systems (Theory)

Paper - ML - 07

Time : Two hours   Full Marks : 50

Answer *all* questions.

1A. (a) Describe the steps involved in the transition towards library automation.

    (b) Discuss how information professionals provide innovative reference and information services through ICT to meet the emerging needs of user.   8+7

OR

1B. (a) What are the advantages of a modular designed library automation software ?

    (b) Write a note on the functional requirements of a library software package .

    (c) Make a comparative study of any two open source software used in the libraries of India.   3+5+7

2A. (a) Why is it important to determine the purpose of a database, before designing it ? Discuss with an example.

(b) What do you mean by 'one-to-one' mapping ?

(c) Draw an E-R model from the following data maintained by a university.

courses, course_no, title, credit, syllabus

student, student_id, name, enrollment_year

instructor, instructor_id, name, department

program, course_no, instructor, classroom, timings

(d) Distinguish between 'Primary Key' and 'Foreign Key'. 4+2+5+4

OR

2B. (a) Describe the major components of a DBMS.

(b) What are the functions of Database Administrator (DBA) ?

(c) Create a table using SQL, having two duplicate rows and at least 4 columns and 4 rows Insert values into the table.

(d) Discuss 'WHERE' clause with suitable examples. 4+4+4+3

3A. (a) What do you understand by 'digital Library' ?

(b) Draw a diagram of digital library architecture

(c) Distinguish between 'Library Automation Software' and 'Digital Library Software'.

(d) Prepare a proposal for your college to set up a digital library. 3+3+4+5

OR

3B. (a) Why is 'handle' essential to maintain a 'digital object' ? Does it differ from URL ? If so, how ? 2+2

(b) Describe the process of adding a resource into a digital library using DSpace. Does metadata has any role in the process ? 4+2

(c) What is the rationale behind OAI-PMH ? Describe the functions of the different QAI-PMH verbs. 2+3

4. Write short notes on any *one* of the following : 5

(a) Multilingual issues in ILMS

(b) Bibliographical databases

(c) ETD

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