MASTER OF LIBRARY & INFORMATION SCIENCE (DIGITAL LIBRARY) EXAMINATION, 2018

(2nd Semester)

Information Technology - I

Paper - MLDL - 4.2

Time : Two hours   Full Marks : 40

Answer *all* questions.

1A. (a) What are meta tags in HTML and what are their usefulness ? Write an HTML code that will display a table of Library's Name and address as a caption and under that Member's name, their address and their educational status as a table heading.   3+5

   (b) What are the different ways to apply CSS to HTML code ? Give related example for each.   7

OR

1B. (a) What are the different Form tags in HTML. Give example of each.   5

   (b) What is Extensible Markup Language (XML) ? Explain the difference between XML and HTML code with examples.   2+4

   (c) Describe the rules that must be followed while creating a well-formed XML document.   4

2A. What do you mean by Normalization in RDBMS ? What different normal forms are available ? Discuss first normal form with example. What are the different relationsips available in RDBMS ? Think about a database table named employee with three fields : emp_id, name and dept. Write SQL commands to execute the following:

(a) Create the table with proper attributes

(b) Change the field 'name' to 'fname'.

(c) Add another field 'Iname' in between 'fname' and 'dept'.

(d) Add Primary Key to the field 'emp_id'

(f) Retrieve records whose 'Iname' is 'Ghosh'.

2+2+4+2+5

OR

2B. Mention different areas in day-to-day life where RDBMS used. How RDBMS are used or can be used in a modern library to execute different functions efficiency ? Write a few popular RDBMS software. What do you mean by fields and records in a RDBMS ? Discuss the importance of Primary Key in designing a RDBMS. Think about a database table named 'publisher' with three fields ; pub_id, name and phone. Write SQL commands to execute the following : 2+2+2+2+2+5

(a) Create the table with proper atrributes

(b) Insert two records

(c) Delete a record

(d) Update the record by changing the name

(e) Delete the table

3. Write short notes on any *two* of the following : 5x2

(a) Webpage, website and web portal

(b) DDL and DML

(c) Data types in SQL

(d) Steps in web design process.

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