

MASTER OF LIBRARY AND INFORMATION SCIENCE

(DIGITAL LIBRARY) EXAMINATION, 2023

(1st Year, 2nd Semester)

Information Technology - II

Course : MLDL-08

Time : Two Hours

Full Marks : 50

Answer *all* the questions.

1. a) Explain the concept of computer network. List out various components and explain the basic data communication model with a suitable diagram. 4+6

OR

- b) What are the applications of computer network in the library? How mobile technologies will change the library services and why is the library considering wireless? 3+5+2

2. a) Explain different types of connecting device in computer networks. What are the different types of packet-switching? 6+4

OR

- b) What is TCP/IP Model? Explain the functions, protocols and services of each layer? 2+8

[2]

3. a) How RDBMS could be used in different areas of library services? What is normalization in RDBMS? Discuss different types of normalizations in RDBMS.

4+2+4

OR

- b) Write MySQL commands to execute the following tasks:
- Create a table named 'student' with three fields named id, name and course with proper attributes.
 - Add another field named surname after name.
 - Change the name of field name to fname.
 - Make the id field as Primary Key
 - Insert a record with suitable data 2+2+2+2+2
4. a) Discuss Entity Relationship in RDBMS. Discuss the difference DDL, DML and DCL commands in MySQL. 5+5

OR

- b) Write SQL commands for a table named author with field id, name and phone with suitable attributes and id as Primary Key.
- Replace name field with fname and lname
 - Display records whose lname matches with 'Majumder'

[3]

- Delete records whose fname are 'Anonymous'
- Replace 'Dash' by 'Das' for the field 'lname'
- Delete the table 'author' 2+2+2+2

5. Write Short Notes (Any two) : 5×2

- Data types used in MySQL
- 'joining' of tables in any RDBMS
- Network security
- Network addresses