15/07/2025 - DLD & RDBMS Exam Study Material

Digital Logic and Design (DLD)

DIGITAL LOGIC AND DESIGN (DLD) - Morning Exam

Important Questions and Answers:

1. Q: What are the basic logic gates?

   A: Basic gates are AND, OR, and NOT. These are the building blocks for digital circuits.

2. Q: Explain De Morgan's Theorems.

   A: First: (A + B)' = A'.B'

   Second: (A.B)' = A' + B'

3. Q: What is a Full Adder?

   A: A Full Adder adds three bits (A, B, Cin) and produces Sum and Carry outputs.

4. Q: Difference between Encoder and Decoder.

   A: Encoder converts input into binary code; Decoder converts binary code to output signals.

5. Q: Draw truth table for NAND gate.

   A:

   A | B | Output

   --|---|--------

   0 | 0 | 1

   0 | 1 | 1

   1 | 0 | 1

   1 | 1 | 0

Relational Database Management System (RDBMS)

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RELATIONAL DATABASE MANAGEMENT SYSTEM (RDBMS) - Evening Exam

Important Questions and Answers:

1. Q: What is a Primary Key?
   A: A Primary Key uniquely identifies each record in a table and cannot be NULL.

2. Q: Write SQL command to create a table.
   A:
   ```
   CREATE TABLE student (
      id INT PRIMARY KEY,
      name VARCHAR(50),
      dept VARCHAR(30)
   );
   ```

3. Q: Define Normalization.
   A: Normalization is the process of organizing data to reduce redundancy. 1NF, 2NF, and 3NF are common forms.

4. Q: What is the difference between DBMS and RDBMS?
   A: DBMS stores data as files; RDBMS uses tables with relationships between them.

5. Q: Write a query to display all records from 'student' table.
   A: SELECT * FROM student;