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DCCA203

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Reg. No.

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**II Semester B.C.A. Degree Examination, July/August - 2024****COMPUTER APPLICATION
Database Management System
(NEP Scheme)****Time : 2½ Hours****Maximum Marks : 60****Instructions to Candidates:**

Answer any four questions from each section.

SECTION - A**I. Answer any Four questions. Each question carries 2 marks.****(4×2=8)**

1. What is DBMS? Mention any two advantages of DBMS.
2. What is Data Model? List three categories of data model.
3. Define primary key with example.
4. What are the different categories of SQL statement?
5. Define entity. Mention its types.
6. What is concurrency control?

SECTION - B**II. Answer any Four questions. Each question carries 5 marks.****(4×5=20)**

7. Explain the main characteristics of Database approach.
8. Define data independence write in detail about physical and logical data independence.
9. What is an ER diagram? Explain the different notations used in ER diagram.

[P.T.O.]



10. Create table for the following data with primary key constraint.
STUDENT (S Reg.No, S Name, Address, phone, Gender). Answer the queries.
- Create a table with the primary key.
 - Insert two Tuples.
 - Update the Gender for S Reg.NO= "101" to "Male"
 - Display the tuples in descending order.
 - Drop the column "phone" in the given table.
11. What is transaction? Explain the ACID properties of transactions.
12. Draw a neat diagram of Memory hierarchy.

SECTION - C

III. Answer any **Four** questions. Each question carries **8** marks. (4×8=32)

13. Explain three schema architecture with a neat diagram.
14. Construct an ER-diagram of a Company database.
15. Explain in detail about DML statements with syntax and example.
16. a. Difference between DBMS and RDBMS. (5)
b. What is Index? List different types of Indexes. (3)
17. What is Normalization? Explain any two normal forms with example.
18. Explain different states of a transaction with neat diagram.
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