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Roll No

MCADD-305

M.C.A. (Integrated), III Semester

Examination, June 2023

Database Management System

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Differentiate between Database approach v/s Traditional file accessing approach.
b) Explain the concepts of Generalization and Aggregation with appropriate examples.
2. a) What is schema and subschema? Explain these two concepts through examples.
b) What is data dictionary? What it stores? How can this information be useful in DBMS?
3. a) Explain the Select and Update commands with syntax.
b) What are integrity constraints? Define the term primary key constraint and foreign key constraint. How are these constraints expressed in SQL?
4. a) What do you mean by the terms loss-less decomposition?
b) Explain natural join, outer join, full outer join, left outer join and join with examples.

5.
 - a) Explain dangling Tuple. Is BCNF is a stronger normal form than 3NF. Mention reason.
 - b) What is a deadlock? Discuss strategies for preventing deadlock.
6.
 - a) What is Cursor Management? Explain nested and parameterized cursors.
 - b) Discuss the basic concepts of transaction and write ACID properties.
7.
 - a) How concurrency is performed? Explain the protocol that is used to maintain the concurrency concept.
 - b) Explain ACID property in detail.
8. Explain following term
 - i) Super key
 - ii) Flashback queries
 - iii) RDBMS
 - iv) Extensions
