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Roll No 08/0(A21DD54

MCADD-603

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

Examination, May 2024

Advanced DBMS

Time: Three Hours

Maximum Marks: 70

- Note: i) Attempt any five questions.
 - ii) All questions carry equal marks.
- Explain the layered architecture model for an object-oriented database.
 - b) How are persistent programming languages different from SQL?
- 2. a) Discuss the relationship between Specialization and Generalization.
 - b) Explain the rules and facts of Deductive Databases with examples.
- 3. a) Discuss how concurrency control in distributed transactions prevents data inconsistency?
 - b) Write about the critical design issues of parallel databases.
- 4.7 a) Define transactions and explain nested, multilevel transactions.
 - b) Explain the essential components of a successful transaction workflow.

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- 5. a) Briefly explain types and levels of database recovery techniques.
 - b) Event-Condition-Action rules are different from triggers; justify.
- 6. a) Explain examples and limitations of recursive query processing with SQL statements.
 - b) Discuss the challenges and techniques involved in modeling multimedia data.
- 7. a) Compare and contrast Spatial and Topological Relationships in Content based retrieval.
 - b) Write about the significance of different Web databases in commercial systems.
- 8. Explain any three from the following:
 - a) Cache Coherence
 - b) Distributed Deadlock
 - c) R-tree and k-d tree
 - d) Save points and Shared disk systems

Dates of Markens