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MCSE-203

M.E./M.Tech., II Semester Examination, June 2020

Advance Concept in Data Bases

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- 1. a) What is the primary goal of normalization? How are the concepts of Functional dependency and multivalued dependency associated with normalization?
 - b) Explain Tuples, key, schema and attributes.
- 2. a) Discuss the entity integrity and referential integrity constraints. Why is each considered important?
 - b) Explain cost estimation in Query optimization.
- 3. What do you mean by Mobile databases? Discuss the characteristics of Mobile databases. Give an application of Mobile databases.
- 4. Explain the following term
 - i) Object oriented Data Model
 - ii) Object oriented DBMS.
- 5. What are the advantages of DDBMS over centralized DBMS? Why is data replication and fragmentation performed in DDBMS?
- 6. a) What do you mean by Data Marts and distributed data marts?
 - b) Explain any one Data Mining Techniques.
- 7. a) Compare the relative merits of centralized and hierarchical deadlock detection in a distributed DBMS.
 - b) Explain pipelining and Query language.
- 8. Write a short notes (Any three)
 - i) Data mining Statistics
 - ii) Star schema
 - iii) Concurrency control in Distributed Databases
 - iv) Syntax Analyzer
