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Roll No

MCSE - 203

M.E./M.Tech., II Semester

Examination, December 2015

Advance Concept in Data Bases

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

- Why is the normalization process necessary for a good database design? Discuss in detail the Boyce codd normal form with suitable example.
 - Discuss the entity integrity and referential integrity constraints. Why is each considered important.
- Explain the difference between two tier and three tier architectures. Which is best suited for web applications? Why?
 - Why is it not desirable to force users to make explicit choice of a query processing strategy? Are there cases in which it in desirable for users to be aware of the costs of competing query processing strategies? Explain your answer.
- Discuss cost estimation in query optimization.
 - What is meant by heuristic optimization? Discuss the main heuristics that are applied during query optimization.

What is a commit protocol and why is it require government.com distributed database? What is blocking and how does the three phase protocol prevent it? Explain the following:

- i) Time stomp protocol for concurrency control
- ii) OODBMS and compare it with RDBMS
- Explain mobile databases in detail. Give an application of mobile database.
 - b) What is the difference between persistent and transient object? How is persistence handled in typical object oriented database system?
- 6. a) Discuss ORDBMS database design issues and illustrate your discussion using an example application.
 - What processes and specializations are involved in the storage of data in a warehouse?
- Discuss the role of information visualization in data mining.
 - What are the objectives of data mining? Discuss spatial data mining.
- 14 Write short notes:
 - Data reduction
 - Star schema

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- Fact constellations
- Object data management group

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