MCSE-203

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

Examination, December 2014

Advance Concept in Data Bases

Time: Three Hours

Maximum Marks: 70

Note: Attempt any five questions. All questions carry equal marks.

- a) What are major anomalies in a database? Explain the method to deal with these anomalies, with a suitable example.
 - b) Why is BCNF a more desirable normal form than lower forms? Give an example of a relational scheme that is in third normal form but not in BCNF. Also explain using an example why it is not practically feasible always.
- a) What is semijoin operation? How can it be used in distributed query processing? Describe with the help of an example.
 - b) Enumerate and illustrate the problems which may motivate an organisation to move towards the database approach. Identify the most important factor inhibiting an organisations move towards a DBMS?
- a) What are mobile databases? Discuss the characteristics of mobile databases. Give an application of mobile database.
- b) What is query optimization? Describe with the help of an rgpvonline? Sample.

- 4. a) What is the differences between persistent and transient objects? How is persistence handled in typical object oriented database system?
 - b) What are the different problems that arise in a distributed DBMS Environment for concurrency control and recovery purpose.
- 5. a) What is Data Marts? How is it different from data warehouse? How the management of data in a database, is different from the management of data in a data warehouse? Explain using example.
 - Describe major challenges to data mining regarding data mining methodology and user interaction issues.
- a) What are the basic update strategies in the context of recovery? Explain with the help of an example.
 - Write a brief notes on ORDBMS design and ORDBMS Query Language.
- a) Write all the steps for distributed database design and explain.
 - b) Write a brief notes on pipelining and materialization.
- 8. Write short notes on the following:
 - Structure of Query Evaluation Plans
 - b) Snowflake schema and fact constellations
 - c) Clustering based disaster-proof databases
 - d) Relational calculus.

华米安米市家

rgpvonline.com