B. Tech. VII Semester (Main/Back) Examination 2013
COMPUTER ENGINEERING # 7CS6.0 Common with CS & IT

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ADVANCE DATABASE MANAGEMENT SYSTEM
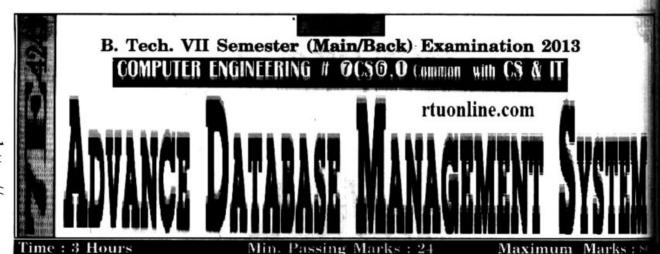
Time : 3 Hours   Min. Passing Marks : 24   Maximum Marks : 8

Instruction to Candidates :

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Unit-I

1. (a) What are the goal of Query Optimization. Explain pushing section in alternative plan? **[8]**

   (b) Explain the term system catalog? Also explain how catalog are stored? **[8]**

OR

1. (a) Describe Enumeration of alternative plan in brief? **[8]**

   (b) Write short note on:
   (i) Decomposition of query into blocks
   (ii) Estimation cost of a plan. **[4 × 2 = 8]**

Unit-II

2. (a) Explain ORDBMS and OODBMS in brief? **[8]**

   (b) What are different structured data types available in object database system? **[8]**

OR

2. (a) What is the object database system? How object database system support for complex object and types of object? **[8]**

   (b) Compare ORDBMS and OODBMS with various database system? **[8]**

Unit-III

3. (a) What is concurrency control? What are the recovery techniques to overcome from concurrency ? **[8]**

   (b) Explain parallelizing individual operation. **[8]**

OR

3. (a) What is distributed DBMS? Explain architecture.

   (b) Write short note on:
   (i) Data replication and allocation.
   (ii) Distributed query processing. **[4×2=**

Unit-IV

4. (a) What is the database security? Explain Secrecy integrity and availability within database security? **[8]**

   (b) Explain Access control in briefly? **[8]**

OR

4. (a) Explain the additional Issues related to security?

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   (b) Write a short note on:
   (i) Authorization
   (ii) DOD Security level. **[4×2=**

Unit-V

5. (a) Describe POSTGRES user interface? Explain its architecture? **[8]**

   (b) Explain storage and indexing in brief? **[8]**

OR

5. (a) Explain in brief Query processing Optimization and system architecture? **[8]**

   (b) What is XML? What is the background of XML with SGML & HTML? **[8]**