B. Tech. VII Semester (Main/Back) Examination 2013

COMPUTER ENGINEERING # 7CS6.0 Common with CS & IT

ADVANCE DATABASE MANAGEMENT SYSTEM

Time : 3 Hours   **Min. Passing Marks : 24**   **Maximum Marks : 80**

Instruction to Candidates :

*Attempt any **five** questions, selecting **one** question from **each** unit. All questions carry **equal** marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.)*

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 its architecture. [8]

 (b) Write short note on:
  (i) Data replication and allocation.
  (ii) Distributed query processing. [4×2=8]

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? [8]

 (b) Write a short note on:
  (i) Authorization
  (ii) DOD Security level. [4×2=8]

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?