

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

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

ADVANCE DATABASE MANAGEMENT SYSTEM

Time : 3 Hours

Min. Passing Marks : 24

Maximum Marks : 80

Instruction to Candidates :

Unit-I

- (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

- (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

- (a) Explain ORDBMS and OODBMS in brief? [8]
(b) What are different structured data types available in object database system? [8]

OR

- (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

- (a) What is concurrency control? What are the recovery techniques to overcome from concurrency? [8]
(b) Explain parallelizing individual operation. [8]

OR

- (a) What is distributed DBMS? Explain its architecture.
(b) Write short note on:
(i) Data replication and allocation.
(ii) Distributed query processing. [4×2=8]

Unit-IV

- (a) What is the database security? Explain Security, integrity and availability within database security?
(b) Explain Access control in briefly?

OR

- (a) Explain the additional Issues related to security?
(b) Write a short note on:
(i) Authorization.
(ii) DOD Security level. [4×2=8]

Unit-V

- (a) Describe POSTGRES user interface? Explain its architecture?
(b) Explain storage and indexing in brief?

OR

- (a) Explain in brief Query processing, Optimization and system architecture?
(b) What is XML? What is the background of XML with SGML & HTML?