

Exam. Code: 0919
Sub. Code: 6457

2074

B.E. (Computer Science and Engineering)
Seventh Semester
CS-702: Advance Database Systems

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting two questions from each Unit.

x-x-x

Q-1 Answer the following in brief:

- Discuss the four data allocation strategies.
- Briefly explain data mining.
- Explain 3-phase commit protocol.
- Which normalization state of safer 3N or BCNF. Justify.
- Briefly explain ORDBMS Design.

(5x2)

UNIT - I

Q-2 a) Explain the DoD security levels for database system.

b) Describe about the SQL standard and its components and explain the object relational support in SQL. (2x5)

Q-3 a) Give a comparison of application development, recovery and performance features of Oracle, DB2 and MySQL.

b) Summarize the reason behind the development ORDBMS.. Assess the advantages, disadvantages and the characteristics of ORDBMS. (2x5)

Q-4 a) Explain shadow paging recovery scheme, with the help of example and diagram.

b) Discuss about how Concurrency control is maintained in DBMS (2x5)

UNIT - II

Q-5) Consider a bank that has a collection of sites, each running a database system. Suppose the only way the databases interact is by electronic transfer of money between one another. Would such a system qualify as a distributed database? Why? (10)

P.T.O.