

Roll No:

Total No. of Questions : 08]

[Total No. of Pages :02

Paper ID [CS507]

(Please fill this Paper ID in OMR Sheet)

M.Tech. (Sem. - 1st)

ADVANCE DATABASE MANAGEMENT SYSTEMS (CS - 507)

Time : 03 Hours

Maximum Marks : 100

Instruction to Candidates:

- 1) Attempt any **Five** questions.
- 2) All questions carry equal marks.

MAY 2008

- Q1)** (a) Discuss different types of database management systems with advantages and disadvantages of each.
- (b) Why the normalisation process is necessary for a good database design? Discuss in detail the Boyee-Codd normal form with suitable example.
- Q2)** What are different types of relational query languages? Discuss the different techniques for optimising the queries.
- Q3)** What are the different techniques for database recovery? Discuss in detail.
- Q4)** (a) What are the different advantages of a distributed database management system? Discuss in detail the different functions of a DDBMS to manage the complexity of data distribution.
- (b) Discuss in detail concurrency control in case of distributed database management systems.
- Q5)** (a) How the object oriented databases are beneficial than the traditional databases? Explain the different concepts of object oriented database management systems.
- (b) Write short note on deductive databases.
- Q6)** What is the use of data warehouse? Discuss the architecture of data warehouse and its functionality in detail.

Q7) (a) What is the objective of data mining? What is the importance of associative rules for data mining? Explain any data mining algorithm in detail.

(b) What is the use of online analytical processing? Explain how the data is analysed using this process?

Q8) Write short notes on:

(a) Spatial Databases

(b) Mobile Databases

