

Roll No.

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Total No. of Pages : 01

Total No. of Questions : 08

M.Tech.(IT)(2015 & Onwards)/(CSE Engg.) (2015 to 2017) (Sem.-1)

ADVANCED DATABASE SYSTEM

Subject Code : MTCS-104

Paper ID : [72632]

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTION TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWENTY marks.

1. Explain the following in detail :
 - a) Semi structured data
 - b) Client cache management
 - c) OLAP servers.
2. Explain briefly about the following :
 - a) Distributed garbage collection
 - b) Pointer swizzling.
3.
 - a) What is the relationship between a type and its subtype in a type hierarchy?
 - b) Explain ODBMS examples and its applications.
4.
 - a) What is meant by concurrency controls?. Explain with example.
 - b) Why is data replication useful in Distributed Database and what typical units of data are replicated?
5. Explain about query processing and Optimization in Distributed Databases.
6.
 - a) What are the advantages of a distributed database management system over a centralized DBMS?
 - b) With an example explain the process of multimedia database.
7.
 - a) Discuss about mobile database and multimedia database with examples.
 - b) Explain in details spatial database and temporal database.
8.
 - a) What are the origins of the object-oriented approach?
 - b) Explain the encapsulation of operations.