

40793

SEVENTH SEMESTER B.TECH. DEGREE EXAMINATION, DECEMBER 2007

CS 2K 705.G Advanced Topics in Database Systems

Time: 3 hours

Maximum: 100 marks



PART - A

- I. a. What primary characteristics should an OID possess?
- b. What is meant by object query language. Given an example of a query.
- c. Discuss the advantages of distributed databases.
- d. What are the problems involved in a distributed DBMS environment compared to centralized environment.
- e. Explain the multimedia Database concepts.
- f. Explain how spatial databases differ from regular databases.
- g. Discuss some important features of the Oracle database.
- h. Compare the features of Oracle and Microsoft access.

(8x5=40 marks)

PART - B

2. a. Describe the steps of the algorithm for object database design by EER-to-OO mapping. (15 marks)
- OR
2. b. Describe the following object query language concepts. (15 marks)
 - i) database entry points
 - ii) path expressions
 - iii) named queries (views).
3. a. i) Why is data replication useful in DDBMS? What typical units of data are replicated. (8 marks)
- ii) Discuss the types of distributed database systems. (7 marks)
- OR
3. b. i) Why is fragmentation a useful concept in distributed database design. (8 marks)
- ii) What are the software components in a Client - Server DDBMS. (7 marks)



es. Give ~~examples~~ of Facts and Rules in
using ~~the rules~~. (15 marks)

Maximum: 100 marks

Time: 3 hours

(15 marks)

PART - A

ed database ~~ORACLE~~ with the help
(15 marks)

provided by ~~Microsoft~~ access.
(15 marks)

(8x5=40 marks)

PART - B

Describe the steps of the algorithm for object database design by ER-to-DB
(15 marks)

OR
Describe the following object query language concepts

(15 marks)

What is a replication method in DBMS? What typical tasks of data are

(7 marks)

OR
Describe the types of distributed database systems

(15 marks)

(7 marks)