

Exam.Code:0919

Sub. Code: 6803

1078

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. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

I. Write short note on following:-

- a) Heuristic Query Optimization
- b) Checkpoints
- c) Shadow Paging
- d) Goals of data mining
- e) SQL3

(5x2)

UNIT – I

- II. a) Why is data replication useful in DDBMSs? What typical units of data are replicated?
b) How do regular inheritance, multiple inheritances and selective inheritance differ?
(5,5)
- III. a) Explain how heuristic query optimization is performed with an example.
b) Why are normal forms alone insufficient as a condition for a good schema design?
c) What is a data cube? How is it used in data warehousing?
(5,2,3)
- IV. a) What are the five types of knowledge produced from data mining? What are the difficulties of mining association rules from large databases?
b) When are voting and elections used in distributed databases?
(7,3)

UNIT – II

- V. a) How is the concept of serializability useful for concurrency control?
b) Discuss the differences between database systems and information retrieval systems.
c) List and explain in brief the main categories of data models.
(4,3,3)

P.T.O.

(2)

- VI. a) Write a short note on commercial database products and their uses.
b) List the advantages and disadvantages of DDBMS.
c) How does data mining differ from and extend the functionality of a typical Database Management System? (4,3,3)
- VII. a) Describe the four levels of isolations in SQL.
b) What is a participation role? When is it necessary to use role names in the description of relational types? (5,5)

x-x-x