ANNA UNIVERSITY COIMBATORE

B.E. / B.TECH. DEGREE EXAMINATIONS : MAY / JUNE 2010

REGULATIONS : 2007

FIFTH SEMESTER

070230034 - DATABASE MANAGEMENT SYSTEMS

(COMMON TO CSE / IT)

TIME : 3 Hours                                      Max.Marks : 100

PART – A

(20 x 2 = 40 MARKS)

ANSWER ALL QUESTIONS

1.   Mention the advantages of a DBMS ?
2.   What is an entity relationship model ?
3.   Define relational algebra .
4.   Write short notes on domain relational calculus .
5.   Give the general form of SQL query ?
6.   Define tuple variable.
7.   What are the domain constraints ?
8.   Define canonical cover ?
9.   What are the steps involved in Query processing ?
10.  What is a B+ Tree index ?
11.  What is hashing file organization ?
12.  What do you mean by Fudge factor ?
13.  Define shadow paging ?
14.  Define the phases of two phase locking protocol?
15.  Define blocks in storages?
16.  What are the two types of serializability ?
17.  What is multiple inheritance ?
18.  What is nested relational model ?
19.  What are the various forms of data transparency ?
20.  Define atomic domains ?

PART - B

(5 x 12 = 60 MARKS)

ANSWER ANY FIVE QUESTIONS

21.  Explain about the database system structure .
22.  Briefly explain the relational algebra .
23.  What is Aggregate Function ? Briefly describe it ?
24.  Explain mechanism of nested queries .
25.  Define RAID ? Briefly explain it .
26.  Explain Hash File Organization.
27.  Describe Log Based Recovery.
28.  Write short notes on Data Ware Housing ?

*******THE END*******