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May 2007 CS - 305

DATA BASE MANAGEMENT SYSTEM (B. Tech, Semester 5th 2057)

Time: 03 Hours

Maximum Marks: 60

Note: Section-A is compulsory. Attempt any Four questions from section - B. Attempt any two questions from Section-C.

Section A

- Q1) (a) Define the term program Data Independence.
 - (b) Explain the Physical Design phase of database design process?
 - (c) What does role name signify? Explain with example?
 - (d) Distinguish between super key and primary key using a suitable example.
 - (e) Discuss the mechanism of altibute/relationship inheritance. Why it is useful?
 - (f) What is a view in SQL? Write syntax to create a view?
 - (g) What is meant by the closure of set of functional dependencies?
 - (h) What is meant by revoking privileges? Write full syntax.
 - (i) Discus the situations when a transection is Roll back and how?
 - (j) When two conflicts are said to be conflict equivalent? Give an example.

Section B

- Q2: Differentiate between menu based interface and form based interface.
- Describe the several types of attributes occur in E-R model. Q3
- Describe the various reasons that read to occurrence of NULL values in relation. Q4
- Describe UNDO and REDO operations and the recovery techniques that use each. Q5
- Discuss the types of privileges at the account level and those at the relation level. Q6

Section C

- How does the granularity of data affect the performance of concerrency control? Explain multiple granularity level locking in detail?
- (a) Illustrate the characteristic of a relation.
 - (b) Solve the given Queries in SQL using following databases. emplye (frame, name, SSN, Salary, D No, Super SSN) department(Dname, DNumber, MGRSSN, MGRSTART DATE)

(a) Illustrate a ternary relationship using suitable example.

weloperz (b) What is a minimize set of functional dependencies? Does every set of dependencies? a minimal equivalent set?