

IV B.Tech I Semester Supplementary Examinations, April/May 2005
DATA BASE DESIGN
(Information Technology)

Time: 3 hours

Max Marks: 70

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Discuss the different enterprise rules and attribute types.
(b) Discuss with examples, all the five normal forms.
2. (a) Discuss the different types of traps with examples.
(b) Explain briefly about decomposition of complex relationships with examples.
3. (a) Explain recursive relationships with example.
(b) Explain first and second level design briefly.
4. (a) Discuss the various EER update operations and transaction specifications.
(b) Give a brief overview of an OODBMS.
5. (a) Give a brief overview of distributed database system.
(b) Explain about concurrency control in distributed databases.
6. Explain the following: Null value, Normalization, relationship, regular entity, EER model, replication and determinancy diagram.
7. (a) Discuss about two emerging database applications.
(b) Explain repeating groups and their eliminations.
8. Draw the E / R diagram for a companys personel database which is given below and also derive the set of base relvar definitions.

The company has a set of departments. Each department has a set of employees, a set of projects and a set of offices. Each employee has a job history and for each job, the employee has a salary history. Moreover, each office has a set of phones.
