

DATA BASE MANAGEMENT SYSTEM

SECTION-A

1. What do you understand by Data base, discuss its objectives and when it should not be used? 20
2. (a) Discuss Three Levels of Data-base architecture. 10
(b) Write a note on advantages of Distributed Data - base. 10

SECTION - B

3. Explain Hierarchical model, give it problems and suggest a solution. 20
4. (a) Define following terms:
Weak entity
Domain
Secondary key
Super-key
Attribute.
(b) With example, explain E-R diagram. 10
5. Explain Relational model with its property.

SECTION - C

6. Why Normalization is so important in Relation model, explain 1NF-3NF with explain.
7. (a) Discuss PJNE.
(b) For BCNF, Relations are mostly in 3NF also, explain.
8. (a) Explain with example:

SELECT

PROJECT

Cartesian PRODUCT

DIFFERENCE.

- (b) Discss Domain Calculus and 'Free and Bound variables'

8.

SECTION - D

9. What is a Transaction? Discuss concurrency problems in a Transaction and give solutions. 20
10. Write notes on any two:

- (a) Process of Recovery
- (b) Shadow Paging Recovery
- (c) DDL, DCL.

20

