(iii) Bank employees are identified by their employee-id values. The bank also keeps packs of the employee's start date and thus length of employeement.

(iv) The Bank offers two account Saving and Banking account. Account can be held by more than one customer and a customer has more than one account.

(v) A loan is originated at a particular branch and can be held by one or more customers. The Data and Time are recorded for each payment.

16

UNIT - II

2 (a) How does Tuple Relational Calculus differ from Domain Relational Calculus.

8

(b) Differentiate between Degree and Cardinality of a relation.

8

OR

2 Write short notes on the following :
(i) Internet Data Base
(ii) Object Oriented Data Base System
(iii) Integrity constraints
(iv) Join Dependency
(v) Multivalued Dependencies.

16

UNIT - III

3 (a) What is normalization ? How is it useful in a good Data Base Design ?

6

(b) Discuss the purpose of BCNF and describe how BCNF different from 3NF. Provide an example to illustrate your answer.

10

OR

3 What do you mean by serializability ? Discuss the conflict and view serializability with suitable example. Discuss the testing of serializability also.

16