

Q-1-A) Answer the following

- 1) Explain types of database.
- 2) Explain functions of database
- 3) Explain Relational data model.

Q-1-B) Answer the following

- 1) Explain oo model.
- 2) Explain 5 relational set operator

Q-2-A) Answer the following

- 1) Explain Dr.codd's relational database rules.
- 2) Explain degree of data abstraction and integrity rules
- 3) Explain 1NF,2NF and 3NF with example.
- 4) Explain BCNF and 4NF with example.
- 5) Explain Relationship participation.

Q-3-A) Draw ERD for following entities.

Salesperson,customer,order,product,warehouse

Q-3-B) Answer the following.

Employee master (Emp\_id, fname, lname, dob, doj, address1, address2, ph,  
designation)

Employee detail (Emp\_id,dept\_no,dept\_namebasic,hra,da,ta)

- 1) find all employees whose fname have 'A' as second letter.
- 2) Find total salary of employees department wise.
- 3) Find total years of service for each emp.
- 4) Find all the employees whose net salary is lower than 7,500
- 5) Count all employees designation wise.