

- b. Consider the schema in 3(c) and answer the Queries using SQL commands.
- Retrieve sum of salary of all employees.
 - Find all employees who were born during 1990s.
 - Retrieve the names of all employees who do not have supervisors.
 - Retrieve the name of each employee who has a dependent with same name and sex of the employee.
 - Find the maximum and minimum salary of the employees working in 'Admin department'.
- (10 Marks)

PART – B

- 5 a. Write short notes on :
- Constraints as Assertion and Trigger
 - Virtual tables.
- (10 Marks)
- b. Explain Embedded SQL and Dynamic SQL. (10 Marks)
- 6 a. List and explain the four Informal design guidelines for Relation schemas. (10 Marks)
- b. Define Functional Dependency. Explain 1 NF , 2 NF with an example. (10 Marks)
- 7 a. Define Boyce – Codd Normal Form. Explain 4 NF and 5 NF. (10 Marks)
- b. Write a note on :
- Discretionary Access Control
 - Mandatory Access Control.
- (10 Marks)
- 8 a. Explain four important properties of Transaction. (10 Marks)
- b. Write a note on :
- 2 PL
 - ARIES.
- (10 Marks)
