



13. a) Interpret the mapping cardinalities of binary relationship set.

(OR)

b) Illustrate the concept of BCNF and Dependency Preservation.

14. a) Explain briefly about code's rule in DBMS

(OR)

b) Outline the number function and date function used in SQL. Give an example.

15. a) Point out the PL/SQL block and its elements.

(OR)

b) Define Cursor. Explain the types of cursor and how to use it in PL/SQL code?

**SECTION – C**

**(5 X 5 = 25 MARKS)**

**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.(K4 (Or) K5)**

16. a) Sketch and explain the database system architecture .

(OR)

b) Determine the fundamental operation of relational algebra with an example.

17. a) Construct the basic structure of SQL queries with an example.

(OR)

b) Examine how to use recursion in SQL give an example?

18. a) Explain the basic structure of Entity-Relationship diagram.

(OR)

b) Point out the practical issues in database design process.

19. a) Explain the following with example

i) DDL      ii)DML      iii)DCL

(OR)

b) Categorize the various types of operator supported by SQL in detail.

20. a) Construct the control structure used in PL/SQL with an example.

(OR)

b) Create a PL/SQL program to find the total and average of 4 subjects mark of a student and display the grade