

APRIL/MAY 2019

**BSC41 — DATABASE MANAGEMENT  
SYSTEM**

Time : Three hours

Maximum : 75 marks

**SECTION A — (10 × 2 = 20 marks)**

Answer ALL the questions.

1. Define database.
2. What is flat file?
3. What is Join?
4. Define NULL.
5. Define Second normal form.
6. What is denormalization?
7. Define NOT NULL constrain.
8. Define DML.
9. Write the syntax of FETCH statement in PL/SQL.
10. List the attributes used in Implicit cursor.





SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) Describe the role of database administrator.

Or

- (b) What is ER model? Explain.

12. (a) Explain union operation in relational algebra.

Or

- (b) Describe selection operation in relational algebra.

13. (a) Describe the BCNF with example.

Or

- (b) Discuss about the Third Normal form with an example.

14. (a) Write down the syntax for the following SQL commands.

- (i) Create
- (ii) Insert
- (iii) Update
- (iv) Drop.

Or

- (b) Describe the use of view creation in SQL.

15. (a) Explain the conditional statements used in PL/SQL with example.

Or

- (b) Write short note on Explicit cursor with example.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. What is Data model? Explain Network and Relational data model.

17. Discuss Tuple relational calculus and Domain relational calculus.

18. Discuss in detail Functional Dependency (FD).

19. Why are triggers used? Explain with example.

20. Write a brief notes on PL/SQL Block Structure.

