

(6 pages)

Reg. No. : .....

Code No. : 40592 E Sub. Code : SMCS 43

B.Sc. (CBCS) DEGREE EXAMINATION,  
NOVEMBER 2019.

Fourth Semester

Computer Science — Main

RELATIONAL DATABASE MANAGEMENT SYSTEM

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The overall design of a database is \_\_\_\_\_  
(a) Physical schema (b) Logical schema  
(c) Schema (d) None of the above
2. A relational database is based on \_\_\_\_\_  
(a) Network model (b) Hierarchical model  
(c) Relational model (d) All the above

3. \_\_\_\_\_ command is used to remove the relation from the SQL.  
(a) DROP TABLE (b) DELETE TABLE  
(c) REMOVE (d) All the above
4. \_\_\_\_\_ value signifies, that the value is unknown.  
(a) Null value (b) Domain value  
(c) Atomic value (d) None of the above
5. \_\_\_\_\_ symbol can be used in the select clause to denote all attribute.  
(a) ; (b) \*  
(c) / (d) all the above
6. \_\_\_\_\_ clause causes the tuples in the result of a query to appear in a sorted order.  
(a) group by (b) order by  
(c) asc or desc (d) none of the above
7. A sub class with more than one super class is \_\_\_\_\_  
(a) derived classes (b) sub classes  
(c) shared classes (d) all the above

8. 2NF is based on \_\_\_\_\_

- (a) full functional dependency
- (b) functional dependency
- (c) multivalued dependency
- (d) all the above

9. \_\_\_\_\_ command can be used to modify the sequence.

- (a) MODIFY SEQUENCE
- (b) ALTER SEQUENCE
- (c) UPDATE SEQUENCE
- (d) All the above

10. A function is \_\_\_\_\_

- (a) Return a value
- (b) No return value
- (c) May or may not return value
- (d) None

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Explain data abstraction in detail.

Or

(b) Write in detail about data manipulation languages.

12. (a) What are the components (parts) of SQL?

Or

(b) What are basic data types in SQL?

13. (a) What is the use of where clause? Explain.

Or

(b) Write short note on Natural join.

14. (a) What is specialization? Give example.

Or

(b) Explain the concept of Inheritance.

15. (a) What is the purpose of using DESCRIBE command?

Or

(b) Explain PL/SQL block structure.

PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) What are the disadvantages of database system?

Or

(b) Explain :

(i) Data storage

(ii) DBA.

17. (a) Explain the concept of schema. Give example.

Or

(b) Explain relational operations with example.

18. (a) Explain set operation. Give example.

Or

(b) What are nested subqueries? Give example.

19. (a) Explain :

(i) 2NF

(ii) 3NF.

Or

(b) Explain functional dependency with example.

20. (a) Explain how to modify table. Give example.

Or

(b) What are stored procedures? Give example.

---