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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.
