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Reg. No. : .....

**Code No. : 30384 E      Sub. Code : JMCS 62/  
JMSE 62**

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2020.

Sixth Semester

Computer Science/Software Engineering – Main

**RELATIONAL DATABASE MANAGEMENT SYSTEM**

(For those who joined in July 2016 only)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL the questions.

Choose the correct answer :

1. An attribute is a \_\_\_\_\_ in a relation
  - (a) row
  - (b) column
  - (c) value
  - (d) tuple

2. In relational model, the row of table is known to be \_\_\_\_\_
- (a) Relation
  - (b) Entity - Field
  - (c) Tuple
  - (d) Attribute
3. Who proposed the relational model?
- (a) Bill Gates
  - (b) Herman Hollerith
  - (c) Charles Babbage
  - (d) E.F. Codd
4. The minimal set of super key is called \_\_\_\_\_
- (a) Primary key                      (b) Secondary key
  - (c) Candidate key                    (d) Foreign key
5. In SQL, Which of the following is not a data definition language command?
- (a) Rename                              (b) Revoke
  - (c) Grant                                 (d) Update

6. Which of the following SQL command is used to retrieve data?
- (a) Select                      (b) Insert  
(c) Delete                      (d) Join
7. E-R model uses this symbol to represent weak entity set.
- (a) Dotted rectangle  
(b) Diamond  
(c) Doubly Outline Rectangle  
(d) Rectangle box
8. In the \_\_\_\_\_ normal form, a composite attribute is converted to individual attributes.
- (a) First                      (b) Second  
(c) Third                      (d) Fourth
9. A stored procedure in SQL is a \_\_\_\_\_
- (a) Block of functions  
(b) Group of SQL statements  
(c) Stored functions  
(d) Procedure

10. Triggers are supported in \_\_\_\_\_
- (a) Delete                      (b) Update  
(c) Views                        (d) Select

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Mention the advantages of DBMS.
- Or
- (b) Write a note on Transaction Management.
12. (a) Examine the basic concept of relational database.
- Or
- (b) Enumerate the structure of SQL Queries.
13. (a) Illustrate the set Operation in SQL.
- Or
- (b) List out the five aggregate functions and write SQL Query with example.
14. (a) Elaborate attributes and its types.
- Or
- (b) Illustrate the components of ER Model.

15. (a) Give the syntax for CREATE, INSERT ALTER, UPDATE and DELETE Commands Demonstrate with suitable example.

Or

- (b) How to create Views in PL/SQL? Explain.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Explain the basic architecture of DBMS with a neat diagram.

Or

- (b) Classify the different types of database languages in DBMS with example queries.

17. (a) Analyse the Relational Query Languages.

Or

- (b) Specify the database schema approaches and draw a neat diagram.

18. (a) Elaborate the various data types in SQL.

Or

- (b) Give explanation of nested sub queries with example.

19. (a) Clarify Third Normal Form with example.

OR

(b) Explain Boyce Codd normal form.

20. (a) Give an overview of assertions and Trigger.

Or

(b) Elucidate stored procedure.

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