St. JOSEPH'S COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI – 620 002

SEMESTER EXAMINATIONS – APRIL 2015

TIME: 3 Hrs.   MAXIMUM MARKS: 100

SEM	SET	PAPER CODE	TITLE OF THE PAPER
IV	2013	11UBC430208	RELATIONAL DATABASE MANAGEMENT SYSTEM

SECTION – A

Answer all the questions: **20 x 1 = 20**

Choose the correct answer:

1. A group of similar objects of concern is
   a) Entity
   b) Database
   c) Attribute
   d) Relationship

2. A minimal super key is called
   a) Super key
   b) Candidate key
   c) Primary key
   d) Secondary key

3. Projection is a _____ operation.
   a) Unary
   b) Binary
   c) Ternary
   d) None of the above

4. Union comes under _____operation.
   a) Join
   b) Set
   c) Aggregate
   d) Sequential

5. The _____function rounds a number to a specified number of decimal places.
   a) FLOOR
   b) TRUNC
   c) CEIL
   d) ROUND

Fill in the blanks:

6. _____symbol is used to represent the relationship among entities.

7. _____ is a software that allows the access to data contained in a database.

8. The properties of an object is called as _____.

9. The function to find the minimum of the values in the column is _____.

10. _____ cursor attribute returns the number of rows affected by the DML.

State True or False:

11. Logical independence indicate the physical storage structure can change without any change in conceptual structure.

12. Employee and department have one-to-many relationship.

13. The primary key is unique for identification of a record.

14. The CEIL(10.28) is 11.

15. A trigger is a temporary work area created in the system memory when a SQL statement is executed.

Match the following:

16. Entity   -   a) Returns only one value

17. Abstraction   -   b) Virtual Relation

18. View   -   c) Binary operation

19. Selection   -   d) Rectangle box

20. Function   -   e) Hides superfluous details

SECTION – B

Answer all the questions: **5 x 4= 20**

21. a. Write notes on Entities and Attributes with examples.

OR

b. Give the entity diagram with its attributes of EMPLOYEE and ROOM.

22. a. Write notes on Formal structure of a file.

OR

b. Write notes on Sequential files.

23. a. Write notes on Integrity rules.

OR

b. Write notes on Attributes, Domain and tuples with an example.

24. a. Write notes on Set operations in SQL.

OR

b. Explain the anomalies involved in a bad database design.

25. a. Write notes on Triggers with example.

OR

b. Brief on exception handling in PL/SQL with examples.

SECTION – C

Answer any FOUR questions: **4 x 15 = 60**

26. Explain the structure of a DBMS with neat diagram.

27. Write a detail note on Direct Files.

28. Explain the Basic Operations performed in Relational Algebra.

29. Define Normalization. Explain the process of converting a normalized form to 1NF, 2NF & 3NF with example.

30. Explain procedure and functions in PL/SQL with examples.

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