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Name.....

Reg. No.....

**FOURTH SEMESTER (CUCBCSS—UG) DEGREE EXAMINATION  
APRIL 2020**

Computer Science

BCS 4B 05—DATABASE MANAGEMENT SYSTEM AND RDBMS

(2017 Admissions)

Time : Three Hours

Maximum : 80 Marks

**Part A**

*Answer all questions.*

*Each question carries 1 mark.*

1. What is an entity set ?
2. What is logical schema ?
3. Define cardinality.
4. What is data dictionary ?
5. DML stands for \_\_\_\_\_.
6. A tuple is also known as \_\_\_\_\_.
7. What is primary key ?
8. What is the purpose of ROLL BACK ?
9. To avoid duplicate rows from an SQL database use \_\_\_\_\_ command.
10. What is trigger ?

(10 × 1 = 10 marks)

**Part B**

*Answer all questions.*

*Each question carries 3 marks.*

11. What you meant by functional dependency ?
12. Explain built-in functions in SQL.
13. Describe array statements.
14. Define different DCL commands.
15. Explain aggregate functions.

(5 × 3 = 15 marks)

**Turn over**

**Part C**

*Answer any five questions.*

*Each question carries 5 marks.*

16. What are the three levels of data abstraction ?
17. Explain different categories of data models.
18. Explain different control structures in SQL.
19. Explain two phase locking.
20. Explain how to create, modify, and delete triggers.
21. Write a comparison on relational calculus and domain calculus.
22. Write a comparison on file system and DBMS.
23. Explain how to create, modify, and delete triggers.

(5 × 5 = 25 marks)

**Part D**

*Answer any three questions.*

*Each question carries 10 marks.*

24. Explain ER diagram with example.
25. Write a short note on aggregation, generalization and specialization.
26. Explain different types of keys with example.
27. Explain three schema architecture and data independence.
28. What is Normalization ? Explain different normal forms.

(3 × 10 = 30 marks)