



# DON BOSCO COLLEGE

(Affiliated to the University of Calicut)

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## SECOND INTERNAL EXAMINATION MARCH 2019 FOURTH SEMESTER BCA BCA4B05: FUNDAMENTALS OF DBMS AND RDBMS

**Time: 3 hours**

**Max. Marks: 80**

### *Part – A*

*Answer All Questions*

*Each Carries 1 Mark*

1. What is schema?
2. ER model uses \_\_\_\_\_symbol to represent weak entity set.
3. Key to represent relationship between two tables is called \_\_\_\_\_
4. What is a candidate key?
5. DDL stands for \_\_\_\_\_
6. What is tuple?
7. What is physical level?
8. What is the purpose of commit?
9. Full form of DDL and DML
10. In ER diagram attributes are represented by\_\_\_\_\_

**(10 \* 1 = 10 marks)**

### *Part – B*

*Answer All Questions*

*Each Carries 3 Marks*

11. Compare strong and weak entities.
12. Explain outer join operation.
13. Explain ER Model.
14. Explain multivalued dependency.
15. Explain ACID properties.

**(5 \* 3 = 15 marks)**



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## *Part –C*

*Answer All Questions*

*Each Carries 5 Marks*

16. Explain different data types in SQL.
17. How to create, rename and destroy views?
18. What are the string functions?
19. Explain RDBMS.
20. Write a short note on database languages.
21. What is trigger? Explain how to create trigger.
22. Explain different loops in SQL.
23. Write the difference between table level lock and row level lock.

**(5 \* 5 = 25 marks)**

## *Part D*

*Answer All Questions*

*Each Carries 3 Marks*

24. Explain how to create, modify, delete, rename and drop tables in SQL with example.
25. Write a comparison on relational calculus and domain calculus.
26. Explain the advantages of DBMS over file system.
27. What is Normalization? Explain different normal forms.
28. Explain various operations in relational algebra.

**(3 x 10 = 30 marks)**

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