

D 51251

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Name.....

Reg. No.....

THIRD SEMESTER B.C.A. DEGREE EXAMINATION, NOVEMBER 2018

(CUCBCSS—UG)

Core Course

BCA 3B 03—DATABASE DESIGN AND RDBMS

(2014 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A

Answer all questions.

Each question carries 1 mark.

1. The term attribute refers to a _____ of a table.
2. The functional dependency exists in _____ Normal Form.
3. E-R diagram stands for _____.
4. Data Definition Language is an example of _____ language.
5. Establish unique values in a table can be possible by using _____ constraint.
6. Write statement which indicates that transaction T has started execution ?
7. Name any type of lock.
8. A _____ is a special kind of a store procedure that executes in response to certain action on the table like insertion, deletion or updation of data.
9. Write example for granting permission.
10. Give example for cardinality ratio for a binary relationship.

(10 × 1 = 10 marks)

Part B

Answer all questions.

Each question carries 2 marks.

11. What is trigger ? Write example.
12. Explain about responsibilities of DBA ?
13. Discuss about domain constrain.

Turn over

14. Explain about the lost update problem ?
15. Write the uses of HAVING and GROUP BY clauses of SQL statement.

(5 × 2 = 10 marks)

Part C

*Answer any five questions.
Each question carries 4 marks.*

16. Draw E-R diagram which shows relationship between CUSTOMER and LOAN.
17. Explain about desirable properties of transactions.
18. Explain about SQL DDL commands.
19. What is view ? Write syntax and give example.
20. Discuss about data types in SQL.
21. How Cursor is declared ? What about the functionality of cursor ?
22. Discuss about types of attributes.
23. How to implement a cursor for loop ?

(5 × 4 = 20 marks)

Part D

*Answer any five questions.
Each question carries 8 marks*

24. Explain about the main characteristics of the database approach.
25. Discuss about anomalies in Normalization. Explain THIRD and BCNF normal forms.
26. Explain about aggregate functions in SQL with suitable example.
27. Discuss about concurrency control techniques.
28. Discuss about types of Locks with appropriate statements.
29. Discuss about database triggers?
30. Write SQL DDL and SQL DML statements based on the given table student (ID,name, dept_name,tot_cred) and course(course_id,title,dept name,credits)
31. Discuss about database system architecture.

(5 × 8 = 40 marks)