

15U322

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Name:

Reg. No.....

THIRD SEMESTER B.C.A. DEGREE EXAMINATION, NOVEMBER 2016

(CUCBCSS - UG)

CC15U BCA3 B03 - DATABASE DESIGN & RDBMS

(Core Course)

(2015 Admission)

Time: Three Hours

Maximum: 80 Marks

PART A

(Answer *all* questions. Each question carries 1 mark)

1. The number of attributes in a relation is called it's _____
2. _____ is an essential clause used with an SELECT command.
3. _____ is the smallest unit of data.
4. The database schema is written in _____ language.
5. _____ are the properties of entities.
6. Entities having primary keys are called _____
7. DBA stands for _____
8. The collection of information stored in the database at a particular moment is _____
9. The lowest level of data abstraction is _____
10. SQL stands for _____

(10 x 1 = 10 Marks)

PART B

(Answer *all* questions. Each question carries 2 marks)

11. What is cursor?
12. What is database schema?
13. What is schedule?
14. What is view?
15. Define DBMS.

(5 x 2 = 10 Marks)

PART C

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

16. Explain DDL, DML, and DCL with example.
17. Explain two levels of data independence.

18. Define primary key, foreign key, candidate key, and super key
19. Explain aggregate functions with suitable example.
20. Why should normalization be performed on a table and what are its benefits.
Explain 3NF and BCNF
21. Implement following relation using SQL query.
Student (stud_no, stud_name, sub1, sub2, totalmark, percentage)
Create the table, add 5 records and display the data
22. Explain grant and revoking privileges.
23. Explain grouping of data in table in SQL.

(5 x 4 = 20 Marks)

PART D

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

24. What is a transaction? Explain the ACID properties
25. Explain stored procedures and stored functions.
26. What is trigger? How it is useful? Explain
27. Write queries for the following tables.
T1 (Empno, Ename , Salary, Designation), T2 (Empno, Deptno.)
 - (1) Display all rows for salary greater than 5000.
 - (2) Display the deptno for the ename='shyam'.
 - (3) Add a new column deptname in table T2.
 - (4) Change the designation of ename='ram' from 'clerk' to 'senior clerk'.
 - (5) Find the total salary of all the rows.
 - (6) Display Empno, Ename, Deptno and Deptname.
 - (7) Drop the table T1.
28. Give Symbol used in E-R Diagram and Draw the E-R diagram of University exam System.
29. What is join? Explain different types of join with example.
30. Define database. Explain the three level architecture of DBMS.
31. Explain the issues of a database design.

(5 x 8 = 40 Marks)
