BCA-09/DCA-103

June - Examination 2017

BCA Pt. II/DCA Examination

Database Management System

Paper - BCA-09/DCA-103

Time : 3 Hours]   **[Max. Marks :- 100**

Note: The question paper is divided into three sections A, B and C. Write answers as per given instructions.

Section - A   **10 × 2 = 20**

(Very Short Answer Questions)

Note: Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum upto 30 words. Each question carries 2 marks.

1) (i)   Give the defination of RDBMS.

    (ii) List the usage of key.

    (iii) Who are End Users?

    (iv) What is checkpoint?

    (v) List the limitations of Oracle.

    (vi) What is NULL value?

    (vii) How you can check the constraints in SQL? Give an example.

(viii) Define degree of relationship.

(ix) What is meta-data?

(x) Joining a table to itself is called as .... Join.

Section - B $4 \times 10 = 40$
(Short Answer Questions)

Note: Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 10 marks.

2) Give the usage of SELECT query in SQL. Also Explain the basic difference between where and having clause of SELECT statement.

3) Explain Log based recovery technique.

4) Write short note on Referential Integrity.

5) Define the concept of Aggregation. Give two example where this concept is used.

6) Define functional dependency and explain inference rules of functional dependencies.

7) What is view? What are their significance.

8) What is transaction? What are the properties of transaction?

9) Define Relational Algebra. Explain briefly various set operations in Relational Algebra with suitable example.

Section - C $2 \times 20 = 40$
(Long Answer Questions)

Note: Answer **any two** questions. You have to delimit your each answer maximum upto 500 words. Each question carries 20 marks.

10) What are the uses of Joins in SQL queries? Explain different types of Joins in SQL queries with suitable example.

11) How DDL commands are different from DML? Explain with the help of suitable example.

12) Why Database Model are used in DBMS? Describe Hierarchical, Network and Relational Model.

13) What do you mean by serializability? Discuss the conflict and view serializability with suitable example. Discuss the testing of serializability also.

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