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BCA-09 / DCA-103

June - Examination 2016

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 $10 \times 2 = 20$

(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) What is the full form of RDBMS?

(ii) What do you mean by strong entity?

(iii) Define schema.

(iv) What is null artribute?

(v) Who are end users?

(vi) Name some popular RDBMS packages.

(vii) What is the use of check pointing?

(viii) What is the full form of OLAP?

(ix) What do you mean by functional dependency?

(x) What do you mean by degree of a relationship type? Give example.

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 defination of serializable schedule. Discuss serializability algorithm with example.

3) What are the role of Data Warehouse? Give the difference between Database and Data Warehouse.

4) What is key? Discuss the concepts of primary key with example.

5) Compare generalization and specialization.

6) What do you mean by constraints? Discuss various types of constraints.

7) Explain the concept of DDL and DML commands in DBMS.

8) Write short note on triggers.

9) Why SQL is called non-procedural language? Explain 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 requirement of join operation? Discuss various types of join operations with example.

11) What is the need of normalization? Explain 1NF, 2NF and 3NF with example.

12) Consider the following tables:

Employee (Emp_no, Name, Emp_city)

Company (Emp_no, Company_name, Salary)

Write the following queries in SQL

(i) Write a query to display employee name, employee city, company name.

(ii) Write a query to display emp_name, employee city; company name and salary of the employee whose salary > 10000

(iii) Write a query to display all the employees working in 'XYZ' company.

13) Explain why we study the data models in database. Also differentiate between E-R model and Relational model.

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