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BCA-09/DCA-103

December – Examination 2020

BCA (Part II)/DCA Examination

Database Management System

Paper : BCA-09/DCA-103

Time : 2 Hours]

[Maximum Marks : 70

Note :- The question paper is divided into two Sections A and B. Write answers as per the given instructions.

Section-A

7×2=14

(Very Short Answer Type 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) List *two* advantages of DBMS.
- (ii) What is Data Independence ?

- (iii) Give *two* differences between Network Model and Hierarchical Model.
- (iv) Using an example give the contrast between Simple Attribute and Composite Attribute.
- (v) What are the benefits of Joins ?
- (vi) List different versions of SQL Server.
- (vii) Give *four* DDL Commands.

Section-B

4×14=56

(Short Answer Type Questions)

Note :- Answer any *four* questions. Each Answer should not exceed **200** words. Each question carries 14 marks.

- 2. What is Key ? How primary key is different from Foreign Key ?
- 3. Explain the different functions of DBMS.
- 4. What is Data Model ? Write down the basic characteristics of the databases.

- 5. Define the concepts of Aggregation. Give *two* examples of where this concept is useful.
- 6. Explain the various basic relational algebra operations in detail.
- 7. Define 'Functional Dependency'. Discuss the various types of dependencies with suitable examples.
- 8. Explain the different data types of SQL with the help of example.
- 9. Explain the different set operations of SQL with the help of suitable example.