

BCA-09/DCA-103

December – Examination 2023

BCA (Part II)/DCA Examination

DATABASE MANAGEMENT SYSTEM

Paper : BCA-09/DCA-103

Time : 3 Hours]

[Maximum Marks : 70

Note :- The question paper is divided into three Sections A, B and C. 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 up to **30** words. Each question carries 2 marks.

1. (i) What is Data ?
- (ii) What is Data Model ?

- (iii) Define Attribute.
- (iv) Define Record in Database.
- (v) Define Primary Key.
- (vi) What is use of insert command in SQL ?
- (vii) What is Data Warehouse ?

Section-B **4×7=28**

(Short Answer Type Questions)

Note :- Answer any *four* questions. Each answer should not exceed **200** words. Each question carries 7 marks.

2. Discuss various features of DBMS.
3. What is locking scheme and how is it utilized in database ?
4. Explain ER diagram with suitable example.
5. Explain normalization with suitable example.
6. Discuss functions of database administrator.
7. What is concurrency in DBM ? Explain.
8. Explain functional dependency with a suitable example.
9. Explain different data types in SQL.

Section-C **2×14=28**

(Long Answer Type Questions)

Note :- Answer any *two* questions. You have to delimit your each answer maximum up to **500** words. Each question carries 14 marks.

10. Compare Network, Hierarchical and Relational Model.
11. Explain various keys used in DBMS.
12. Discuss characteristics of SQL.
13. Explain the classification of Data warehouse design.