

BCA-09/DCA-103

December – Examination 2022

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 Abstraction ?
- (ii) What is Data Model ?

- (iii) Define Entity.
- (iv) Give example of Composite Attribute.
- (v) Give *two* applications of DBMS.
- (vi) What is use of select command in SQL ?
- (vii) Give names of *two* aggregate functions of SQL.

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 advantages and disadvantages of DBMS.
3. Explain Primary Key, Foreign Key and Composite Key.
4. Discuss various symbols used in ER Model.
5. Explain Second and Third Normal Form with example.
6. Discuss Codd's rule of DBMS.
7. Describe various Properties of Relation.
8. Discuss DDL, DML and DCL.
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. Explain Client Server Architecture of DBMS.
11. Compare Database System with Traditional File Processing System.
12. Draw an ER diagram of Hospital Management System.
13. What is need of Lock in DBMS ? Explain shared lock and exclusive lock with example.