

BCA-09/DCA-103

June – 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) Give example of Derived Attribute.
- (ii) List different types of Data Base Users.

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(1)

T-465 Turn Over

- (iii) Define Data Dictionary.
- (iv) What is redundancy in database ?
- (v) Define Entity Set.
- (vi) Define Query.
- (vii) Define Primary key.

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. Describe the characteristics of a database system.
3. Explain Candidate Key, Foreign Key and Super Key.
4. Differentiate Specialization and Generalization.
5. Explain BCNF with example.
6. Describe aggregate functions of SQL with example.
7. Discuss role of Data Base Administrator.
8. Discuss the INSERT, UPDATE and DELETE statements of SQL with example.
9. Explain ACID Properties.

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. Discuss various Data Base Languages.
11. Explain various Data Base Models.
12. Explain Concurrency control with locking methods.
13. Explain in detail various features of SQL.