

13. Write short notes on the following :

- (a) Distributed database architecture
- (b) Data Mart
- (c) Difference between data warehouse and database

## **BCA-09/DCA-103**

**June – Examination 2024**

### **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) Classsify the use of Primary Key and Foreign Key.
- (ii) Explain the use of Normalization

- (iii) Identify the types of relation.
- (iv) Explain the use of E-R diagram.
- (v) What is difference between Inner Join and Outer Join ?
- (vi) Write full form of SQL, DDL, DML and BCNF.
- (vii) Explain the term 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. Differentiate between database management system and file management system.
3. Explain the ACID property in database management system.
4. Write the difference between physical and logical independence.
5. Explain the different types of keys that are used in relational database.
6. Describe the characteristics and types of SQL.
7. Explain the role of DBA (Database Administrator).

8. Explain the following terms in brief :
  - (a) Database Instance
  - (b) Trigger
9. Explain the following terms in brief :
  - (a) DDL
  - (b) DML

**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 the different types of Normalization in detail that are used in RDBMS.
11. Explain the Notation of E-R Model with Extended E-R features.
12. What is use of SQL in RDBMS ? Write the syntax and use of the following SQL Command :
  - (a) INSERT
  - (b) SELECT
  - (c) DELETE
  - (d) DROP