DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE, APRIL - 2024

DATA BASE MANAGEMENT SYSTEMS

(Maximum Marks:100)   (Time: 3 Hours)

PART - A
(Maximum Mark : 10)

Marks

I.   Answer **all** the questions in one or two sentences. Each question carries 2 marks.

1. Define Data and Information.

2. What is Attribute and Tuples?

3. Write the syntax to create views are created and for what?

4. List four aggregate functions in DBMS?

5. Define functional dependency.   (5 x 2 = 10)

PART - B
(Maximum Mark: 30)

II   Answer *any five* questions from the following. Each question carries 6 marks.

1. Describe three schema architecture with a figure.

2. Explain Relational algebra operation- Select, Project and Rename.

3. What are the constraints in DBMS? Describe each

4. Explain nested queries with a nested select statement as an example.

5. Describe first, second and third normal form with suitable example.

6. List and explain about the users of database.

7. Write about different attribute types.   (5 x 6 = 30)

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PART – C
(Maximum Mark: 60)
(Answer *one full* question from each unit. Each full question carries 15 marks.)

UNIT - I

III   a) Explain the advantages and disadvantages of DBMS. (10)

     b) Differentiate Data base Schema versus database instance. (5)

OR

IV   a) Write about centralized and client server database system. (10)

     b) List three database languages? And explain each. (5)

UNIT – II

V   a) Describe ER diagram. (9)

     b) List and explain the features of EER diagram. (6)

OR

VI   a) Write about UML class diagram. (5)

     b) List the Keys used in DBMS. Explain each. (10)

UNIT – III

VII   a) Write syntax for the following commands. (8)
   - i)   To create a table with three columns.
   - ii)   Insert values to that.
   - iii)   Add a column to that table.
   - iv)   Insert values to added column.

     b) List and explain transaction properties. (7)

OR

VIII   a) Explain Inner join and outer join with an example. (8)

     b) Write a note on Trigger and Cursor. (7)

UNIT – IV

IX   a) Explain the goals of data mining and data warehouse. (10)

     b) Write a note on Mobile database. (5)

OR

X   a) Describe Object identity and Object structure. (6)

     b) Explain parallel and distributed database. (9)

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