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**II Semester B.Com. (DA) Degree Examination, September - 2023****COMMERCE****Fundamentals of Database Management System and SQL****(CBCS - NEP Scheme)****Time : 2½ Hours****Maximum Marks :60****Instructions to Candidates:**

Answer should be written in completely in English Only.

**SECTION - A**

Answer any FIVE of the following questions. Each question carries 2 marks.

**(5×2=10)**

1. a) What is DBMS?
- b) What is a Logical level?
- c) What is SQL?
- d) What are DDL statement?
- e) What is a foreign key?
- f) What is object based data model?
- g) What is declarative DML?

**SECTION - B**

Answer any FOUR of the following questions. Each question carries 5 marks.

**(4×5=20)**

2. Explain Insert operation with example.
3. Explain various secondary storage devices.
4. Differentiate between logical data independence and Physical data independence.
5. Explain Multilevel indexing.
6. What is Normalisation? Explain the importance and Benefits of Normalisation.

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**SECTION - C**

**Answer any Two of the following questions. Each question carries 12 marks.**

**(2×12=24)**

7. Explain different SQL constraints with syntax and example.
8. Write a short note on Indexes.
9. Explain data warehousing in detail.

**SECTION - D**

**Answer any One of the following question, Each question carries 6 marks.**

**(1×6=6)**

10. Write a SQL query to perform a transaction, where you insert a new order into the "orders" table and update the quantity of a product in the "Products" table. Commit the transaction if successful, or rollback if any error occurs.
  11. Write an SQL query to retrieve the customer name and the total price of their orders from the "Customers" and "Orders" table respectively.
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