

6231

BOARD DIPLOMA EXAMINATION, (C-16)

MAY/JUNE—2023

DCME - THIRD SEMESTER EXAMINATION

DBMS

Time : 3 Hours ]

[ Total Marks : 80

**PART—A**

3×10=30

- Instructions :** (1) Answer **all** questions.  
(2) Each question carries **three** marks.  
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. List various users of DBMS.
2. Define instances and schemas.
3. Define the terms entity and entity set.
4. List various DDL commands in SQL.
- \* 5. Write the syntax to delete a table from the database.
6. List any three group functions in SQL.
7. List any three built-in exceptions provided by PL/SQL.
8. List the ACID properties.
9. Write about the creation of a database in MongoDB.
10. Explain the retrieval of documents from MongoDB database.

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## PART—B

10×5=50

- Instructions :** (1) Answer *any five* questions.  
(2) Each question carries **ten** marks.  
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

- 11.** Explain in detail about specialization, generalization and aggregation. 10
- 12.** Explain in detail about E.F CODD rules for RDBMS. 10
- 13.** (a) Explain sub query with example. 5  
(b) Explain comment statements in SQL with examples. 5
- 14.** (a) Explain any five numeric functions of SQL. 5  
(b) Explain Brewer's CAP theorem. 5
- 15.** Explain in detail about PL/SQL procedures and functions. 10
- 16.** Define recursion and write a PL/SQL recursive function to find factorial of a given number. 10
- 17.** Explain in detail about document oriented databases. 10
- \* **18.** What is a collection? Explain how to create and drop collections in MongoDB. 10

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