

6231

BOARD DIPLOMA EXAMINATION, (C-16)
OCTOBER/NOVEMBER—2023
DCME - THIRD SEMESTER EXAMINATION
DATA BASE MANAGEMENT SYSTEMS

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. Define instance and schema.
2. List various mapping cardinalities.
3. What is DDL? List any three DDL commands.
4. List any three literals in SQL.
5. Mention any three advantages of SQL.
- * 6. What is subquery? Give an example.
7. Write PL/SQL block structure.
8. What does BASE stand for in NOSQL?
9. List any three applications of MongoDB.
10. How to drop a collection in MongoDB? Give an example.

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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.** (a) Explain the benefits of Database Management systems. 5
(b) Explain different levels of data abstraction. 5
- 12.** List and explain CODD's rules. 10
- 13.** Explain various types of SQL joins with examples. 10
- 14.** (a) Give the syntax of update command and explain with an example. 5
(b) Explain cap theorem. 5
- 15.** Explain how to handle pre-defined exceptions in PL/SQL with examples. 10
- 16.** (a) Distinguish between procedure and function in PL/SQL. 5
(b) Write PL/SQL program to find sum of first 'n' natural numbers. 5
- 17.** Explain any two types of NOSQL databases with examples. 10
- 18.** Explain creating and dropping of databases in MongoDB with examples. 10

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