

7238

BOARD DIPLOMA EXAMINATION, (C-20)

NOVEMBER/DECEMBER—2022

DCME – THIRD SEMESTER EXAMINATION

DATA BASE MANAGEMENT SYSTEM

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 the terms instance and schema.
  2. List any three important roles of DBM.
  3. State the purpose of any three character handling functions of SQL().
  4. Give the purpose of SYSDATE() and ROUND() in SQL.
  5. Define input and output statements in PL/SQL with syntax.
  6. Write any three characteristics of procedure subprogram unit in PL/SQL.
  7. List any three implicit exceptions along with their purpose.
  8. What is an implicit cursor?
  9. List any four advantages of MongoDB.
  10. State the need of NoSQL.

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**PART—B**

8×5=40

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

11. (a) Explain specialization and aggregation in DBMS.

(OR)

(b) Explain CODD's twelve rules for RDBMS.

12. (a) Explain GRANT and REVOKE commands in SQL with syntax.

(OR)

(b) Explain the creation of a subquery with syntax and example.

13. (a) Explain any eight PL/SQL numeric datatypes with their subtypes.

(OR)

(b) Explain CASE and GOTO statements in PL/SQL with syntax.

14. (a) Explain creation of explicit cursor in PL/SQL with example.

(OR)

(b) Explain user defined exceptions with syntax and example.

15. (a) Explain the classification of NoSQL.

(OR)

(b) Explain the procedure for updating and deleting a document in MongoDB.

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## PART—C

10×1=10

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

16. Develop an application of a banking system, to reflect the changes of banking transaction in respective tables, to transfer funds from savings account to current account and to record the transaction in the transaction Journal by using COMMIT and ROLLBACK to ensure the data consistency and integrity.

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