



**C20-CM-WD-AIM-CCB-CCN-305**

**7238**

**BOARD DIPLOMA EXAMINATION, (C-20)  
OCTOBER/NOVEMBER—2023**

**DCME - THIRD SEMESTER EXAMINATION**

DBMS

Time : 3 Hours ]

[ Total Marks : 80

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**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 primary key.
2. List the symbols used in ER model and write its purpose.
3. Write a Query in SQL to display maximum salary of employee in employee table.
4. List TCL commands.
5. Write about IF statement in PL/SQL with syntax and example.
6. What is the difference between procedure and function?
7. Define cursor.
8. Write the advantages of triggers.
9. Mention any three advantages of NoSQL.
10. What is the purpose of MongoDB?

**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 database system architecture.

**(OR)**

(b) Explain E. F. Codd's rules for RDBMS.

**12.** (a) Explain Data Manipulation Language (DML) commands.

**(OR)**

(b) Explain subqueries with examples.

**13.** (a) Explain PL/SQL tables and user defined records in PL/SQL.

**(OR)**

(b) Explain parameter modes in PL/SQL with examples.

**14.** (a) Explain explicit cursors.

**(OR)**

(b) What is exception handling? Explain built in exceptions with example program.

**15.** (a) Compare ACID and BASE properties.

**(OR)**

(b) Explain creation of collection and dropping of collection in MongoDB.

## 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.** Write a PL/SQL function is Even(N) to find the given number 'N' is Even or not. If 'N' is even number is Even(N) should return 1, otherwise is Even(N) should return 0.

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