# 7238

## BOARD DIPLOMA EXAMINATION, (C-20)

## JUNE/JULY—2022

## DCME - THIRD SEMESTER EXAMINATION

DATA BASE MANAGEMENT SYSTEM

*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 the terms entity and entity set.

**2.** State the purpose of DBMS.

**3.** Give the query to display the names of all the employees whose salary >10000 from emp table.

**4.** List any six DDL commands of SQL with their syntax.

**5.** Give the structure of a PL/SQL block.

**6.** List any six features of PL/SQL.

**7.** Define an exception.

**8.** Write any three advantages of triggers.

**9.** What is MongoDB?

**10.** Define CAP theorem.

**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 the structure of database system with legible sketch.

**(OR)**

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

**12.** *(a)* Explain transaction control commands in SQL with syntax.

**(OR)**

*(b)* Explain any five data types available in SQL with proper examples in each case.

**13.** *(a)* Explain all the looping statements of PL/SQL with syntax and examples.

**(OR)**

*(b)* Develop a PL/SQL program to reverse the given number.

**14.** *(a)* Explain the user defined exceptions with syntax in PL/SQL.

**(OR)**

*(b)* Describe implicit and explicit cursors with examples.

**15.** *(a)* Write the procedure of inserting and updating documents in MongoDB with example.

**(OR)**

*(b)* Explain the need of NoSQL as alternative to RDBMS.

**Instructions :** (1) Answer the following question.

(2) Question carries **ten** marks.

(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

**16.** How do you create an employee table with id, name, age, address and salary by choosing appropriate data types for the columns and with a minimum of 5 records and can you create a view to store and display minimum, maximum and average salaries of all the employees without modifying the table contents? Justify your answer.

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