7238

BOARD DIPLOMA EXAMINATION, (C-20)

JUNE/JULY—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 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.

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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