C16–CM–305/C16–IT–**305**

6231

BOARD DIPLOMA EXAMINATION, (C–16)

OCT/NOV—2017

DCME—THIRD SEMESTER EXAMINATION

DBMS

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. List the symbols used in ER-diagrams.

2. Define primary key.

3. Define generalization and specialization.

4. How to write comments in SQL?

5. List any three character functions in SQL.

6. List any three date formats in SQL.

7. Write the advantages of exception handling.

8. Define CAP theorem (Brewer's theorem).

9. Define Mongo DB.

10. List the advantages of Mongo DB.

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PART—B   10×5=50

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Instructions : (1) Answer *any* **five** questions.

              (2) Each question carries **ten** marks.

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

11. *(a)* Explain the functions of database administrator.

     (b) Write the syntax for creating a table and give an example.

12. Explain 1NF, 2NF and 3NF normalizations with examples.

13. Explain data types in SQL.

14. *(a)* List and explain about pseudo columns.   5

     (b) Explain the architecture of PL/SQL.   5

15. Explain recursion with an example.

16. *(a)* Explain global and local variables in PL/SQL.   5

     (b) Briefly explain about document-oriented databases.   5

17. Explain about column-oriented databases.

18. Explain inserting document and update document in Mongo DB.

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