



C16-CM/IT-305

6231

BOARD DIPLOMA EXAMINATION, (C-16)  
MARCH/APRIL—2021  
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 the terms instance and schema.
2. Define first normal form and second normal form.
3. Write the syntax for 'CREATE TABLE' command.
4. List any three pseudocolumns.
5. List any six data types provided by SQL.
6. What is a sub query? Give an example.
7. List any three features of PL/SQL.
8. What is NoSQL? List the advantages of NoSQL.
9. List the applications of MongoDB.
10. Explain dropping of a collection in MongoDB.

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## PART—B

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

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|-----|--|-------|
| 11. | Explain in detail about overall structure of DBMS.                                   | 10    |
| 12. | Explain in detail about various integrity constraints.                               | 10    |
| 13. | List and explain various group functions in SQL.                                     | 10    |
| 14. | (a) Explain self join and equi join with an example.                                 | 2½+2½ |
|     | (b) List the differences between ACID and BASE properties.                           | 5     |
| 15. | Explain various loop statements in PL/SQL with examples.                             | 10    |
| 16. | Explain the propagation and raising of exceptions.                                   | 10    |
| 17. | Explain in detail about key value stores and column oriented databases.              | 5+5   |
| 18. | Explain in detail about creation and dropping of databases in MongoDB with examples. | 10    |

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