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BOARD DIPLOMA EXAMINATION, (C-20)

OCTOBER/NOVEMBER—2023

DCAI – FOURTH 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. Define schema.

2. Define data model.

3. What is lexical convention in SQL?

4. Explain any two TCL commands in SQL.

5. What are the naming conventions of variable in PL/SQL?

6. Define PL/SQC procedure.

7. Define trigger in PL/SQL.

8. Define exception handling.

9. What is NoSQL?

10. List any three data types in MongoDB.

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 concept of functional dependencies in DBMS with example.

(OR)

(b) Explain various data models in DBMS.

12. *(a)* Explain DDL commands CREATE, ALTER with examples.

(OR)

(b) Explain SQL operators with examples.

13. *(a)* Explain decision making statements in PL/SQL with examples.

(OR)

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

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

(OR)

(b) Explain the database triggers in PL/SQL with an example.

15. *(a)* Explain the advantages and disadvantages of NoSQL.

(OR)

(b) Explain the process of update document and sorting document 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. Explain about key-value stores, column-oriented, graph and document oriented databases in NoSQL.

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