J-277

B.C.A. (Part-II) Examination, 2021

DBMS (ORACLE, SQL)

Time Allowed : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 40

Note :   Attempt any five questions. One question from each unit is compulsory. All questions carry equal marks.

UNIT-I

Q. 1.   What is meant by Database Languages? Explain database languages with example.   **20**

OR

What is DBMS? Describe DBMS storage structure and access method.

UNIT-II

Q. 2.   What is ER model? Explain Entity, Attributes and Relationship with example.   **20**

(2)

OR

What is meant by Generalization? Explain with example.

UNIT-III

Q. 3.   What is meant by Relational Algebra ? Explain select and project operation with example.   **20**

OR

What is meant by integrity constraints? Explain all integrity constraints of SQL.

UNIT-IV

Q. 4.   What is meant by functional dependency? Explain functional dependencies with example.   **20**

OR

Explain the following :

(a)   4NF and 5NF

(b)   Pitfalls in database design

(3)

UNIT-V

Q. 5. What is data definition language? Explain the statements of data definition language in detail.   **20**

OR

Explain the following :

(a)   SQL & its environment

(b)   Nested query

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