Roll No. 2382300007 1

Total No. of Questions : 6]   [Total No. of Printed Pages : 3

EY-227

B. Tech. IIIrd Semester (New Scheme) CSE
Examination, 2023-24
Database Mgt. System
Paper - CS - 304

Time : 3 Hours]   [Maximum Marks : 60

Note : -Attempt all questions. All questions carry equal marks. Question 1 is compulsory. There are Internal choices between ques. 2 to ques. 6.

EY–227

(1)

P.T.O.

1. Explain brief :-

   (i) Attributes

   (ii) Queries

   (iii) Locks

   (iv) 2NF

   (v) DFD

Unit-I

2. (a) What are Techniques of Traditional file storage systems ? Explain.

   (b) Explain Data Models and its features ?

OR

   (a) Define and Role and Constraint its features ?

   (b) Explain Schemas and Instances in DBMS ?

Unit-II

3. (a) What is the term QBE ? Explain with examples.

   (b) What are keys ? Explain types of keys.

OR

   (a) What are Relational and Tuple Calculus ? Explain.

   (b) What do you mean by Integrity Constraints ?

EY–227   (2)

Unit-III

4. (a) Explain the term Database Methodologies ?

   (b) What is Project and Join Operation ? Explain.

OR

   (a) Explain Concepts of Rules of Axioms ?

   (b) What is the term Lossless join decomposition ? Explain.

Unit-IV

5. (a) What are Transactional Processes ? Explain.

   (b) What are Read and write Operations ? Explain.

OR

   (a) Explain Concurrency and Recovery Method ?

   (b) Explain Shadow paging and its characteristics ?

Unit-V

6. (a) What is Indexing technique ? Explain its advantages.

   (b) Explain Heap and stored File in details ?

OR

   (a) Explain Hashing techniques and its features ?

   (b) What do you mean Storage Structure ? Explain.

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