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Question Paper Code

11675

B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV/DEC 2022

Fourth Semester

Computer Science and Business Systems 20CBPC401 - DATABASE MANAGEMENT SYSTEMS

(Regulations 2020)

Duration: 3 Hours

Max. Marks: 100

PART - A $(10 \times 2 = 20 \text{ Marks})$

Answer ALL Questions

1.	State the difference between open source and commercial DBMS.	Marks, K-Level,CO 2,K1,CO2				
2.	Why relational database is used?	2,K1,CO2				
3.	How query processing and optimization done?	2,K1,CO3				
4.	List the advantage of query equivalence technique.	2,K1,CO3				
5.	What are the two basic kinds of indices?	2,K1,CO4				
6.	List the different types of Storage strategies.					
7.						
8.	Why DBMS needs a concurrency control?					
9.	Define data mining.	2,K1,CO6				
10.	List the advantage of Logical Database.	2,K1,CO6				
	PART - B (5 × 13 = 65 Marks) Answer ALL Questions					
11.	a) Discuss in detail about MYSQL, ORACLE, DB2, SQL.	13,K2,CO2				
	OR	12 12 002				
	b) Illustrate about relational query languages with example.	13,K3,CO2				
12.	a) Explain about query processing and optimization in detail. OR	13,K2,CO3				
	b) Explain the evaluation of relational algebra expressions.	13,K2,CO3				
13.	a) Compare static hashing and dynamic hashing in detail. OR	13,K2,CO4				
	b) Explain the different types of indexes and its properties.	13,K2,CO4				
K1 -	Remember: K2 – Understand: K3 – Apply: K4 – Analyze: K5 – Evaluate: K6 – Create	11675				

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14. a) Describe in detail about concurrency control schemes. 13,K1,C05

OR

b) Illustrate about locking and timestamp based scheduler. 13,K3,C05

15. a) Explain object oriented and object relational database with example. 13,K2,C06

OR

b) Discuss in detail about the deductive database and spatial database. 13,K2,C06

PART - $C(1 \times 15 = 15 \text{ Marks})$

16. a) Construct an ER diagram for a student database system. Assume 15,K3,CC details and elaborate.

OR

b) Construct an ER diagram for an employee database system. Assume 15,K3,CO1 details and elaborate.