

No Preview
Available

Total No. of Question : [4]

Registration No. :

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Programme Name : Bachelor of Computer Science Engineering
Regular T.Y.B.Tech. ESE (A.Y. 2023-24) Sem.V Nov.2023
V SEMESTER (2021 BATCH)
201CSL303-Database Engineering(TH)

Duration : [11:00 AM - 01:00 PM]

Date : 24 Nov, 2023

Day : Friday

Marks : 50

Instructions :

(Q1) All Questions are compulsory [20.0]

(a) List and Explain different users of database system. [6.0]

CO :- C303.1

Blooms Taxonomy :- Understand

(b) Describe basic structure of SQL queries. [7.0]

Consider the following Relational Schema and solve the queries using SQL.

employee (empname, empstreet, empcity)

works (empname, company-name, salary)

company (company-name, company-city)

1. Find the salary of all employees who are working in TCS.

2. Find number of employees for each company.

3. Find the all companies located in every city in which Infosys is located.

4. Give all employees of TCS 15% increment.

5. Find the cities of employees who work for Infosys

CO :- C303.3

Blooms Taxonomy :- Apply

(c) Define normalization? Explain BCNF with example [7.0]

CO :- C303.4

Blooms Taxonomy :- Analyze

(Q2) All questions are compulsory [10.0]

(a) Explain variable length record representation in brief. [6.0]

CO :- C303.4

Blooms Taxonomy :- Analyze

OR [a / b]

(b) Explain multitable clustering file organization [6.0]

CO :- C303.4
Blooms Taxonomy :- Analyze

(c) Give difference between dense index and sparse index with an example. [4.0]

CO :- C303.4
Blooms Taxonomy :- Analyze

(Q3) All questions are compulsory [10.0]

(a) Explain conflict serializability with an example [5.0]

CO :- C303.5
Blooms Taxonomy :- Apply

(b) Explain Timestamp ordering protocol with example. [5.0]

CO :- C303.5
Blooms Taxonomy :- Apply

(Q4) Attempt any two out of three questions [10.0]

(a) State and explain various types of failures that may occur in a system with example. [5.0]
What are the two main parts of recovery algorithms?

CO :- C303.6
Blooms Taxonomy :- Understand

(b) What is log? Explain immediate database modification in log based recovery with example. [5.0]

CO :- C303.6
Blooms Taxonomy :- Understand

(c) Write short note on buffer management. [5.0]

CO :- C303.6
Blooms Taxonomy :- Understand
