Total No. of Questions =

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MKSSS's

Cummins College of Engineering for Women, Pune (An Autonomous Institute Affiliated to Savitribai Phule Pune University)

A.Y. 2021-22 Semester II

Third Year B. Tech - E&TC

In Semester Examination (T2), April - 2022

Course Code: PEEC3201E Course Name: Database Management System

Time: 01:00 Hour

Maximum Marks: 25

Instructions to candidates:

- 1. All questions are compulsory.
- 2. Use of scientific calculator is allowed.
- 3. Draw diagrams wherever necessary.
- 4. Assume suitable data wherever necessary.
- Outline the concept of Outer Join in DBMS. Q.1 For the given relations, find the left natural outer join scenario. Relation course

(05)

course_id	title	dept_name	credits
BIO-301	Genetics	Biology	4
CS-190	Game Design	Comp Science	4
CS-135	Robotics	Comp Science	3

Relation prereg

course_id	prereq_id	
BIO-301	BIO-101	
CS-190	CS-101	
CS-347	CS-101	

Elaborate the significance of Views in DBMS? [3M] (05)Q.2 From the relations given below,

(i) Create a view faculty from instructors; without their salary [1M]

(ii) Find all such instructors in the ECE department [1M]

ID	name	dept_name	salary
1000	Srinivasan	ECE	65000
2000	Mozart	Finance	50000
1010	Gold	ECE	70000
3000	Kim	Comp Science	65000
3020	White	Comp Science	70000

Instructors

Discuss Large-Object types and its usage with appropriate examples. (05)Q.3 Relate the concept of locators in this discussion.

Illustrate the following with appropriate E-R diagram symbols: (05)Q.4

- i) Entity Set.
- ii) Primary Key
- iii) Relationship Set.
- iv) Disjoint generalization
- v) Total participation of entity set in relationship.

Structured Query Language is normally accessed from a programming Q.5 language. Justify this statement with appropriate reasoning. With suitable diagrams discuss the Application Program Interface and embedded SQL mechanisms.