

**CONTINUOUS INTERNAL EVALUATION- 2**

Dept: CSE	Sem / Div: V CS 'B'	Sub: Database Management Systems	S Code: 17CS53
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Date: 02/12/2020 Time: 9:30 AM - 11:00 AM Max Marks: 40 Elective: N

Note: Answer any 2 full questions, choosing one full question from each part.

QN	Questions	Marks	RBT	COs
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**PART A**

1 a	Consider the company database EMPLOYEE(Fname, Minit, Lname, Ssn, Bdate, Address, Sex, Salary, Super_Ssn, Dno) DEPARTMENT(Dname, Dnumber, Mgr_Ssn, Mgr_Start_date) DEPART_LOCATION(Dnumber, Dlocation) PROJECT(Pname, Pnumber, Plocation, Dnum) WORKS_ON(Essn, Pno, Hours) DEPENDENT(Essn, Dependent_name, Sex, Bdate, Relationship) Specify the following SQL queries: i. For every project located in 'Stanford', list the project number the controlling department number and the department manager's number and the department. ii. List the names of all employees who have a dependent with the same first name as themselves.	6	L3	CO2
b	Define stored procedure. Explain the creating and calling of stored procedure with suitable examples.	7	L2	CO4
c	Draw and explain three – tier architecture and technology relevant to each tier. Write the advantages of three – tier architecture.	7	L2	CO4

**OR**

2 a	Consider the following tables WORKS(Pname, Cname, Salary) LIVES(Pname, Street, City) LOCATED_IN(Cname, City) Write the SQL queries: i. List the names of the people who work for company 'Wipro' along with the cities live in. ii. Find the names of the persons who do not work for 'Infosys'.	6	L3	CO2
b	How are triggers and assertions defined in SQL? Explain.	7	L2	CO4
c	How are views created and dropped? Explain how the views are implemented and updated.	7	L2	CO4

**PART B**

3 a	Explain the following SQL commands with examples i. Drop      ii. Delete      iii. Update	6	L2	CO2
b	Explain the informal design guidelines used as measures to determine the quality of relation schema design.	7	L2	CO3
c	Explain the different techniques to achieve 1NF with suitable example.	7	L2	CO3

**OR**

4 a	With program segment, explain retrieving of tuples with embedded SQL in C.	6	L2	CO2
b	Define normal form. Explain 2NF and 3NF with suitable examples.	7	L2	CO3
c	Explain functional dependencies in detail.	7	L2	CO3