Reg. No: ☐☐☐☐☐☐☐☐☐☐

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech II Year I Semester Regular Examinations Feb-2021
RELATIONAL DATABASE MANAGEMENT SYSTEM
(Common to CE,AGE,ME & EEE)

Time: 3 hours   Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

| UNIT-I |

1	a	Define a Database and discuss the applications of Database Systems.	**6M**
	b	Explain about Database languages with examples.	**6M**

OR

2	a	Write a note on data models.	**6M**
	b	List out the disadvantages of DBMS.	**6M**

| UNIT-II |

3	a	Discuss about the use of renaming operator.	**6M**
	b	Describe weak entities with a suitable example.	**6M**

OR

4 Construct the ER diagram for a company needs to store information about employees **12M**
   (identified by ssn, with salary and phone as attributes), departments (identified by dno, with
   dname and budget as attributes), and children of employees (with name and age as attributes).
   Employees work in departments, each department is managed by an employee, a child must be
   identified uniquely by name when the parent (who is an employee; assume that only one parent
   works for the company) is known. We are not interested in information about a child once the
   parent leaves the company.

| UNIT-III |

5	a	Write a short note on Correlated Nested queries.	**6M**
	b	Specify Outer joins with an example.	**6M**

OR

6 How can we compare using null values? Explain about logical connectives with examples.   **12M**

| UNIT-IV |

7 Define normalization and explain 1 NF and 2 NF with examples.   **12M**

OR

8	a	Write short notes on Lossless join Decomposition.	**6M**
	b	Briefly discus about 4NF with an example.	**6M**

| UNIT-V |

9	a	Discuss concurrency control with lock based protocols.	**6M**
	b	Explain about Buffer management.	**6M**

OR

10 Classify various levels of RAID with neat diagrams.   **12M**

*** END ***