R16

Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech IV Year I Semester Supplementary Examinations February-2022
DATABASE MANAGEMENT SYSTEMS
(Open Elective)

Time: 3 hours   Max. Marks: 60

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

UNIT-I

1	a	Explain the Architecture of Database with a neat diagram.	6M
	b	Write short notes on responsibilities of Database administrators.	6M

OR

2	Explain about integrity constraints over relations?	12M

UNIT-II

3	a	Illustrate different operations in Relational algebra with an example.	6M
	b	Distinguish GROUP by and HAVING clauses with examples.	6M

OR

4	a	Distinguish different types of aggregate operators with examples in SQL.	6M
	b	Define NULL VALUE? Describe the effect of null values in database.	6M

UNIT-III

5	Define NULL VALUE? Describe the effect of null values in database.	12M

OR

6	a	Illustrate redundancy and the problems that it can cause.	6M
	b	Explain about Functional Dependency.	6M

UNIT-IV

7	a	Define a Transaction? List the properties of transaction	6M
	b	Write briefly about serializability with example.	6M

OR

8	a	Illustrate Concurrent execution of transaction with examples.	6M
	b	Discuss How you implement Atomicity and Durability.	6M

UNIT-V

9	a	Discuss about file organizations and indexing.	6M
	b	Explain about Index structures.	6M

OR

10	Describe about B+ Trees Dynamic Indexing.	12M

*** END ***