R18

Q.P. Code: 18CS0506

Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

B.Tech II Year I Semester Supplementary Examinations Feb-2021 DATABASE MANAGEMENT SYSTEM

	(Common to CSE & CSIT)	
Time	: 3 hours	Max. Marks: 60
1 11110	PART-A	Trian. Triang. 00
	(Answer all the Questions 5 x $2 = 10$ Marks)	
1	a Explain about class hierarchy.	2M
	b Define-relational algebra.	2M
	c List the SQL domain Types.	2M
	d Define deadlock.	2M
	e What is the use of RAID?	2M
	PART-B	
	(Answer all Five Units 5 x $10 = 50$ Marks)	
	UNIT-I	
2	Explain about integrity constraints over relations.	10M
	OR	
3	List the database models and explain Architecture of database.	10M
	UNIT-II	
4	a Differentiate the relational algebra and calculus.	5M
	b Explain in detail about expressive power of algebra and calculus.	5M
	OR	
5	a Discuss about outer joins with examples.	5M
	b Write about triggers and active databases.	5M
	UNIT-III	
6	a Prove that a relation which is in 4NF must be in BCNF.	5M
	b Define and explain 4NF with suitable example.	5M
	OR	
7	a Compare and contrast between First normal form and second normal form.	. 5M
	b Write about loss -less join decomposition with an example.	5M
	UNIT-IV	
8	Explain briefly normal forms with relevant example.	10M
	OR	
9	Explain buffer management in concurrency control system.	10M
	UNIT-V	
10	a Discuss about file organizations and indexing.	5M
	b Explain about Index structures.	5M
	OR	
11	a Discuss about static hashing.	5M
	b Explain about Extendible hasing.	5M