R18

Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech II Year I Semester Supplementary Examinations November-2020
DATABASE MANAGEMENT SYSTEMS
(Common to CSE & CSIT)

Time: 3 hours　　　　　　　　　　　　　　　　　　　　　　　　Max. Marks: 60

PART-A
(Answer all the Questions 5 x 2 = 10 Marks)

1	a	What is a weak and strong entity sets? Explain with example.	2M
	b	List and explain the types of keys	2M
	c	What is meant by attribute closure? Explain.	2M
	d	What are the storage types?	2M
	e	What is the use of RAID?	2M

PART-B
(Answer all Five Units 5 x 10 = 50 Marks)

UNIT-I

2		Write about logical database design (ER to Relational) with suitable examples.	10M

OR

3	a	Draw the Architecture of Database.	5M
	b	Discuss about Database users and Administrators.	5M

UNIT-II

4	a	Discuss about outer joins with examples.	5M
	b	Write about triggers and active databases	5M

OR

5	a	Differentiate the relational algebra and calculus	5M
	b	Explain in detail about expressive power of algebra and calculus.	5M

UNIT-III

6	a	Compare and contrast between First normal form and second normal form.	5M
	b	Write about loss -less join decomposition with an example.	5M

OR

7	a	Define BCNF. How does BCNF differ from 3NF? Explain with example	6M
	b	Explain 3NF. Give one example.	4M

UNIT-IV

8		Explain buffer management in concurrency control system	10M

OR

9	a	Explain lock based protocols	3M
	b	Briefly explain buffer management in concurrency control system	7M

UNIT-V

10	a	What is clustered index organization? Illustrate with example.	5M
	b	Explain about Composite Search Keys. Illustrate with example.	5M

OR

11		Explain about Delete and Duplicated in Tree Structured Indexing?	10M

END