R18

Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech II Year I Semester Regular Examinations Nov/Dec 2019
DATABASE MANAGEMENT SYSTEMS
(CSE & CSIT)

Time: 3 hours   Max. Marks: 60

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

1	**a**	Define Entity, Attributes, Entity set, relationship with appropriate notations.	**2M**
	b	Explain the structure of basic form of an SQL query.	**2M**
	c	What is the need for triggers?	**2M**
	d	Define functional dependency.	**2M**
	e	What is the use of RAID?	**2M**

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

UNIT-I

2	**a**	Define Database. Discuss about applications of Database Systems.	**5M**
	b	Discuss about the purpose of Database Systems.	**5M**

OR

3	Explain about Database languages with examples.	**10M**

UNIT-II

4	What are the variations in relational calculus? Explain with examples.	**10M**

OR

5	**a**	Explain in detail about nested queries.	**5M**
	b	Explain about aggregate operators.	**5M**

UNIT-III

6	**a**	What is meant by multivalued dependency? Explain with example.	**7M**
	b	Write about problems related to decomposition.	**3M**

OR

7	**a**	Compare and contrast between third normal form and BCNF.	**5M**
	b	Write about loss -less join decomposition with an example.	**5M**

UNIT-IV

8	**a**	Explain serializability in transaction management.	**8M**
	b	What is a recovery scheme?	**2M**

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

END