Reg. No:										
----------	--	--	--	--	--	--	--	--	--	--

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

B.Tech II Year II Semester Supplementary Examinations July-2021 DATABASE MANAGEMENT SYSTEMS

(Common to CSE & CSIT)

Tin	ne: 3 hours	Max. Marks: 60	
	(Answer all Five Units $5 \times 12 = 60$ Marks) UNIT-I		
1	 a Define Database. Discuss about applications of Database Systems. b Define Instance and Schema. List different data models and explain. 		6M 6M
	OR		
2	a Draw the Architecture of Database and explain.		6 M
	b Discuss in detail about Database users and Administrators. UNIT-II		6M
3	a Differentiate the relational algebra and calculus.		7M
	b Explain in detail about expressive power of algebra and calculus. OR		5M
4	a Discuss about outer joins with examples.		6M
	b Write about triggers and active databases. UNIT-III		6M
5	a Differentiate BCNF with 3rd normal form.		6M
	b Explain about normalization and denormalization with examples.		6M
	OR		
6	 a What is redundancy? What are the problems caused by the redundancy b Compute canonical cover Fc for the R={A,B,C,D} and FD's= { A→B, AB→C, AC→D}. 		7M 5M
	UNIT-IV		
7	a Explain transaction management with relevant concept.		6 M
	b Explain transaction states with example.		6M
	OR		
8	Discuss various concurrency control protocols. UNIT-V		12M
9	a Discuss about file organizations and indexing.		6M
	b Explain about Index structures.		6M
	OR		
10	Explain about B+ Trees Dynamic Indexing.		12M

*** END ***