Q.P. Code: 16CS511



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Reg. No:					
1108.110.					

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

B.Tech II Year II Semester Supplementary Examinations October-2020 DATABASE MANAGEMENT SYSTEMS

	(Common to CSE & CSIT)				
Time: 3 hours Max. Marks:					
	(Answer all Five Units $5 \times 12 = 60$ Marks)				
1	a Discuss about the purpose of Database Systems.	6M			
•	b Demonstrate data abstraction implementation in DBMS.	6M			
	OR				
2	a List out the functionalities of DBA.	6M			
	b Explain the architecture of DBMS with a neat sketch.	6 M			
2	UNIT-II	(M			
3	a Explain various types of Joins available in SQL with examples.b List out any six operations on relational algebra and explain.	6M 6M			
	OR	UIVI			
4	a Explain the Division operator of Relational algebra with a suitable example.	6M			
	b What is meant by integrity constraint? Write about complex integrity constraints in	6M			
	SQL.				
_	UNIT-III				
5	a Explain BCNF and the properties of decompositions.b Explain Full functional dependency and Partial dependency with suitable example.	6M 6M			
	OR	OIVI			
6	a Define normalization and explain different Normal Forms with examples.	8M			
	b What is lossless join decomposition with an example?	4M			
_	UNIT-IV	0.5			
7	a Write the need of serializability in transaction management.	6M			
	b Explain Concurrency control with locking methods. OR	6M			
8	a Explain Buffer Management in concurrency control system.	6M			
	b Discuss the issues in handling concurrent transactions.	6M			
	UNIT-V				
9	a How does multilevel indexing improve the efficiency of searching an index file?	8M			
	b Explain about Composite Search Keys with example.	4M			
10	OR a Explain about the measures that are to be considered for comparing the performance	8M			
10	of various file organization techniques.	OIVI			
	b Write the significance of a clustered index.	4M			

*** END ***