

Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

MCA II Year I Semester Regular Examinations Feb-2021 DATABASE MANAGEMENT SYSTEM

(Answer all Five Units $5 \times 12 = 60$ Marks)	
UNIT-I	
1 a Define Data, Database and DBMS.	6M
b Explain the advantages of DBMS.	6M
OR	
2 Explain the following attributes with ER Notations:	12M
a) Simple b) Multi-Valued c) Composite d) Derived.	
3 a Explain Division and Assignment Operations with example.	CM
 a Explain Division and Assignment Operations with example. b Explain Set intersection and Natural – Join Operations. 	6M 6M
OR.	OIVI
4 Explain the steps for converting the E R Diagram to Relational Schema.	12M
UNIT-III	
5 a Explain in detail about Embedded SQL.	6M
b List and explain various SQL Join Operations.	6M
OR	
6 Classify SQL Functions. Explain numeric functions with explanations.	12M
UNIT-IV	
7 Explain the steps to improve the design of a Database in detail.	12M
OR	
8 a Define Normalization.	3M
b Compare and explain about 1NF, 2NF with relevant examples.	9M
<u>UNIT-V</u>	
9 Explain lock-based concurrency control mechanisms with diagram in detail.	12M
OR 10 a Write about Index file organization.	6M
b List and briefly explain various index structures.	6M

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