SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech IV Year I Semester Supplementary Examinations August-2021
DATABASE MANAGEMENT SYSTEMS
Open Elective
(Common to All)

Time: 3 hours   Max. Marks: 60

(Answer all Five Units **5 x 12 = 60** Marks)

UNIT-I

1	a	Classify i)Database ii) DBMS iii) List the database Applications	6M
	b	Outline the Data Abstraction and discuss levels of Abstraction.	6M

OR

2	a	Explain the Architecture of Database with a neat diagram.	7M
	b	Write a short note on Database users and administrators?	5M

UNIT-II

3	a	Define NULL VALUE. Describe the effect of null values in database.	8M
	b	Distinguish different types of aggregate operators with examples in SQL.	4M

OR

4	a	Write in detail about expressive power of algebra and calculus.	7M
	b	Explain the structure of basic form of an SQL query with an example.	5M

UNIT-III

5	a	Explain about Functional Dependency.	6M
	b	Illustrate redundancy and the problems that it can cause.	6M

OR

6		Explain in detail about 1NF, 2NF, 3NF and BCNF with example.	12M

UNIT-IV

7	a	Discuss How do you implement Atomicity and Durability	6M
	b	What is a Transaction? Explain the properties of the transaction. Explain the States of the transaction with a neat sketch.	6M

OR

8		Discuss various concurrency control protocols.	12M

UNIT-V

9	a	Discuss about file organizations and indexing?	6M
	b	Explain about Index structures?	6M

OR

10		Categorize the file organizations in detail?	12M

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