Reg. No.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
MCA I Year II Semester (R16) Regular Examinations May 2017
Database Management Systems
(For Students admitted in 2016 only)

Time: 3 hours   Max. Marks:60

(Answer all Five Units 5 X 12 = 60 Marks)

UNIT-I

1		Define Database and DBMS. Explain the importance of database design.	12M

OR

2	a	Define ER model. Explain about Entities and Relationships.	6M
	b	What is an Attribute? Explain different types of attributes in detail.	6M

UNIT-II

3		Explain the following briefly:	
	a	Entity Integrity	6M
	b	Referential Integrity	6M

OR

4		What are the different types of Relational Set Operators? Explain in detail.	12M

UNIT-III

5		Explain various Data Definition Commands in details with syntax & examples.	12M

OR

6		Explain Aggregate functions with examples.	12M

UNIT-IV

7	a	Define Normalization.	3M
	b	Explain about 1NF, 2NF with relevant examples.	9M

OR

8		Discuss about denormalization in detail.	12M

UNIT-V

9		Define Concurrency control. Explain the 3 problems those occur in concurrency.	12M

OR

10		Explain locking based protocols for concurrency control.	12M

*** END ***