SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
MCA I Year II Semester Supplementary Examinations Jan 2018
Database Management Systems

Time: **3** hours   Max. Marks:**60**

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

UNIT-I

1   What are the various components of a DBMS? Explain with a neat diagram.   12M

OR

2   Write about the following:
   a.   Simple Attribute   3M
   b.   Derived Attribute   3M
   c.   Multi-Valued Attribute   3M
   d.   Composite Attribute   3M

UNIT-II

3   Describe about various keys in relational model. Explain in detail.   12M

OR

4   Discuss Codd's relational database rules in brief.   12M

UNIT-III

5   Briefly explain about Data Manipulation Commands with syntax and examples.   12M

OR

6   Write queries using Relational Set operators.   12M

UNIT-IV

7   a.   Define Normalization.   3M
   b.   Explain about 3NF and BCNF with relevant table structure.   9M

OR

8   Discuss about denormalization in detail.   12M

UNIT-V

9   What is transaction? Explain the ACID Properties in detail.   12M

OR

10 What is file organization? Explain sequential file organization, its advantages and
    disadvantages in detail.   12M

*** END ***