(DCS 315)

B.Tech. DEGREE EXAMINATION, MAY - 2015

(Examination at the End of Third Year)

COMPUTER SCIENCE & IT

Paper - V : Database Management Systems

Time : 3 Hours

Maximum Marks: 75

Answer question No.1 is compulsory	$(5 \times 3 = 15)$
Answer ONE question from each unit	$(4 \times 15 = 60)$

- *1)* Write short notes on :
 - a) $E R \mod l$
 - b) Relational Algebra
 - c) System Catalog
 - d) ACID properties.
 - e) SQL

<u>UNIT - I</u>

2) Draw ER diagram for University and also convert ER diagram to tables?

OR

Explain Data abstraction and different levels of Data abstraction with neat sketch?

<u>UNIT – II</u>

3) Explain Integrity constraints with examples?

OR

Explain Relational languages.

<u>UNIT – III</u>

4) What is normalization? And also explain different normal forms with examples?

OR

- a) Compare and contrast BCNF versus 3NF.
- b) Explain Functional Dependency and multivalued dependency.

<u>UNIT - IV</u>

5) Explain

- a) 2 phase hocking.
- b) Strict 2PL
- c) Hike hock

OR

Explain time stamp based concurrency control technique with example.

