Total no. of pages 2 FORTH SEM

Roll No:.....045 B.TECH(CO/SE)

MID SEMESTER EXAMINATION

MARCH 2016

CO/SE-211 DATABASE MANAGEMENT SYSTEM

Time: 1:30 Hours	Max. Marks: 20
Note: Answer all Questions	
Assume suitable missing data, if any.	
21. (a) What are terms associated with ER model. Draw extend	ded ER diagram
for a University employee system.	3
(b) What are key, primary key, candidate key and super	key? What is the
difference between them, explain with example.	2
Q2, What is database architecture? Also explain data independ	lence in detail. 2
(b) Write statements for creating university database inclu	
foreign keys, constraints and inserting values in each table.	3
Q4). (a) What is closure.	
Compute the closure for relational schema	
R={A,B,C,D,E}	
A>BC	
CD>E	
B>D	
E>A	
List candidate keys of R.	3
(b) Befine BCNF and 3NF. Explain the difference with exam	ples. 2
QL Explain the following	5
(a) Functional Dependencies	
LUT DBA	
Relational Algebra	
(d) Relational Calculus	
(e) Schema based constraints	