Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058, India

(Autonomous College Affiliated to University of Mumbai)

Mid Semester Examination

Max. Marks: 20

Class:S.E.

Course Code:IT 43,CE42

Name of the Course: Database Management Systems

Duration: 1Hrs

Semester:IV

Branch:Information Technology,Computer

Instruction:

(1) All questions are compulsary

(2) Draw neat diagrams

(3) Assume suitable data if necessary

Q No.		Max. Marks	CO
Q.1a	Consider following Schemas 1) Employee(empid, empname, DeptId, contactno, emailid, empheadid) Note : empheadid (head's are some of the employees from the same relation) 2) empdept(DeptId, DeptName,DeptHead) Note : (DeptHead is the foreign key from empid) 3) EmpProject(EmpId, ProjectId, ClientId, StartYear, EndYear) Write the following queries in Relational Algebra 1.Find the empname, deptname, deptHead from the given schema 2.Select all employee Id, and Project Ids with start year is 2015.	4	2
Q.1b	Consider the schema given is QNO 1a Write the following queries in SQL 1. Select the detail of employee whose emailId is in gmail 2. List the total number of employees in each project. 3.Select the name of the employee who is working under"Abhishek".	6	2
Q.2	Write any two functions of DBA OR Write the purpose of physical and logical data Independence in DBMS.	2	1
Q.3	What are four categories of End Users in DBMS. What is their role in the system,justify in one line	4	1
Q.4	With example draw following concepts using ER notations and give description 1) Partial Participation 2) Total Participation OR With the help of example show the mapping of Generalization and Aggregation to the Relational Model.	4	1