



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: Inf.Tech., Comp.Engg.

Instruction:

- (1) All questions are compulsory
- (2) Draw neat diagrams
- (3) Assume suitable data if necessary

Q No.		Max. Marks	CO-BL-PI
Q.1	Name one large website that you use regularly. Describe two major issues with example if database system could not operate effectively on it.	5	1-4-2.4.3
Q.2	Describe any three benefits of data modeling. Give the purpose of Descriptive and prescriptive type of model. OR What is a purpose of CODD'S Rules? List and describe the rule which use for atomic value and Null values.	5	1-2-2.2.2
Q.3	Consider the following schema: Suppliers(sid:integer, sname:string, address:string), Parts(pid:integer, pname:string, color:string), Catalog(sid:integer, pid:integer, cost:real) using relational algebra write following queries 1. Find the names of suppliers who supply some red part 2. Find the sids of suppliers who supply some red or green part 3. Find names of suppliers in Mumbai 4. Find parts name with Red or yellow color 5. Find the sids of suppliers who supply some red part or are at 221 Packer Street	5	2-3-2.2.3
Q.4	Write SQL queries considering following table: EMPLOYEE(EMP ID, Lname, Fname, Dept ID, Manager ID, Monthly Salary, Commission) 1. List out the employees who are working in department 10 and draw salary more than 35000 2. List out the employees who are not working in department 10 or 30 3. List out the employees whose name starts with "S" and ends with "H" 4. Need the List out the employees Last names as "Surname" and annual salary as "Salary per Annum"	5	3-3-2.2.3