



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

October 2023

Course Name: Database Management System

Class: S.Y.BTech

Branch: COMP/DS/AIML

Course Code: CS204

Max. Marks: 30

Semester: III

Instruction:

- (1) All questions are compulsory
- (2) Draw neat diagrams
- (3) Assume suitable data if necessary
- (4) Mention the question number clearly while writing the answer

QNo	Question	Marks	CO
1a)	List and justify the four significant differences between a file-processing system and a DBMS OR List all codd's rule and explain the Physical Data Independence and Logical Data Independence rule.	5	1
b)	State the different roles and responsibilities handled by the database administrator.	2	1
c)	Analyse the situation where DBA has given all the permission to user A, user A has given all the permission to user B and user B has given all the permission to user C. What will happen to user C if user A removes all the permission given to B, justify the situation for users A, B and C using suitable commands.	3	1
2a)	Find the minimum number of tables required to represent the given ER diagram in the relational model and write attributes in each table.(a1,b1,c1,and d1 are primary keys)	5	1

01

Is present in the instance of Employee which of the following tuples can NOT be inserted to employee table.

b)

c)

102	Ramesh	23
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2

Employee

Department

Dept_id	DName
D1	HR
D2	ACCOUNT

01

01

Student (sid, name, address)
Course (cid, cname, duration)
Enroll (sid, cid, cost)

01

01

01

