

SET - 1

St. Peter’s Engineering College (Autonomous) Dullapally (P), Medchal, Hyderabad – 500100. I - Mid Term Examination –February 2025					Dept.	:	CSM	
					Academic Year 2024-25			
Subject Code	:	AS22-05PC01	Subject	:	DATABASE MANAGEMENT SYSTEMS (DBMS)			
Class/Section	:	B. Tech. (A)	Year	:	II	Semester	:	II
Duration	:	120 Min	Max. Marks	:	30	Date:	:	

BLOOMS LEVEL					
Remember	L1	Understand	L2	Apply	L3
Analyze	L4	Evaluate	L5	Create	L6

PART – A (10x1M = 10M)**Note: Answer all Questions. Each Question carries equal marks.**

Q. No	Question (s)	Marks	BL	CO
UNIT – I				
1	a) What is Data Redundancy?	1M	L2	C224.1
	b) What are the different levels of abstraction in DBMS?	1M	L1	C224.1
	c) Define Query Processor?	1M	L2	C224.1
	d) What is Database Design?	1M	L1	C224.1
UNIT – II				
	e) Define Foreign Key.	1M	L2	C224.1
	f) What is RDBMS?	1M	L1	C224.1
	g) What is the use of SELECT in relational algebra?	1M	L2	C224.3
	h) What are the types of Views?	1M	L1	C224.1
UNIT – III				
	i) What is Null Values?	1M	L1	C224.1
	j) What are the types of SQL Server Triggers?	1M	L1	C224.3

PART – B (20M)

Q. No	Question (s)	Marks	BL	CO
UNIT – I				
2	a) Differentiate between database Management system and File systems?	4M	L2	C224.1
	b) Briefly explain about different types of Data Model?	4M	L2	C224.1
OR				
3	a) Explain about different types of attributes in Entity Relationship Model.	4M	L2	C224.2
	b) Explain in brief about Data Independence?	4M	L2	C224.1
UNIT – II				
4	a) Discuss about Enforcing Integrity Constraints?	4M	L2	C224.1
	b) What are the advantages & disadvantages of Relational Database Model?	4M	L2	C224.1
OR				
5	a) Briefly explain in detail about relational Algebra.	4M	L2	C224.1
	b) Explain any FIVE commands in SQL?	4M	L3	C224.3
UNIT – III				
6	Explain the concept of Active Databases.	4M	L2	C224.1
OR				
7	Briefly explain about types of SQL commands.	4M	L3	C224.3

SET-2

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BLOOMS LEVEL					
Remember	L1	Understand	L2	Apply	L3
Analyze	L4	Evaluate	L5	Create	L6

PART – A (10x1M = 10M)

Note: Answer all Questions. Each Question carries equal marks.

Q. No	Question (s)	Marks	BL	CO
UNIT – I				
1	a) What are the types of Data Independence?	1M	L1	C224.1
	b) Explain Requirements Analysis.	1M	L2	C224.1
	c) What are the components of an ER diagram?	1M	L1	C224.2
	d) What is Relationship Set?	1M	L2	C224.1
UNIT – II				
	e) What are the fundamental operations of Relational Algebra?	1M	L2	C224.1
	f) What is Data Integrity?	1M	L2	C224.1
	g) Define a primary key?	1M	L1	C224.1
	h) What are the different forms of Relational Calculus?	1M	L1	C224.1
UNIT – III				
	i) What is Active Databases?	1M	L2	C224.1
	j) What are the types of SQL Aggregation Function?	1M	L1	C224.3

PART – B (20M)

Q. No	Question (s)	Marks	BL	CO
UNIT – I				
2	a) Briefly explain about Database Design in DBMS.	4M	L2	C224.1
	b) Explain about different types of relationship in Entity Relationship Model.	4M	L2	C224.2
OR				
3	a) Explain about three major components in a structure of DBMS with a neat sketch.	4M	L2	C224.1
	b) Discuss about levels of abstraction in DBMS.	4M	L2	C224.1
UNIT – II				
4	a) Discuss about Integrity Constraint Over Relations.	4M	L2	C224.1
	b) Explain in brief about the Views in SQL.	4M	L4	C224.3
OR				
5	a) Briefly explain the concept of Logical Database.	4M	L2	C224.1
	b) Discuss about Enforcing Integrity Constraints?	4M	L2	C224.1
UNIT – III				
6	What is Trigger? Explain how to Implement Triggers in SQL?	4M	L4	C224.3
OR				
7	Explain in detail about Nested Queries in SQL.	4M	L3	C224.3

SET-3

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BLOOMS LEVEL					
Remember	L1	Understand	L2	Apply	L3
Analyze	L4	Evaluate	L5	Create	L6

PART – A (10x1M = 10M)

Note: Answer all Questions. Each Question carries equal marks.

Q. No	Question (s)	Marks	BL	CO
UNIT – I				
1	a) What is dbms?	1M	L1	C224.1
	b) Define entity?	1M	L2	C224.1
	c) List out any 2 advantages of dbms?	1M	L1	C224.1
	d) Define relationships in ER model?	1M	L2	C224.2
UNIT – II				
	e) What is the use of SELECT in relational algebra?	1M	L2	C224.1
	f) Define a primary key?	1M	L2	C224.1
	g) Short note on projection.	1M	L2	C224.1
	h) Write any 2 advantages while creating a view.	1M	L1	C224.1
UNIT – III				
	i) Describe the use of GROUP BY with a query.	1M	L2	C224.3
	j) What is ORDER BY? Explain with an example.	1M	L2	C224.3

PART – B (20M)

Q. No	Question (s)	Marks	BL	CO
UNIT – I				
2	a) A neat diagram of structure of dbms ?	4M	L2	C224.1
	b) Explain about database manager and data manager from structure of DBMS?	4M	L2	C224.1
OR				
3	a) Explain conceptual design with ER Model	4M	L2	C224.1
	b) Explain the three levels of abstraction in a DBMS	4M	L3	C224.1
UNIT – II				
4	a) Explain any 3 key constraints with syntax and examples?	4M	L2	C224.1
	b) Explain any 3 relational operator with syntax and example?	4M	L2	C224.1
OR				
5	a) Write 4 different DDL commands and results on student table.	4M	L3	C224.3
	b) write the shorts notes on DML commands with syntax and example	4M	L4	C224.1
UNIT – III				
6	Define aggregate functions and their uses with the help of example queries.	4M	L2	C224.3
OR				
7	Explain TRIGGERS and how to create a trigger while data insert into a table.	4M	L3	C224.3
