

HALL TICKET NUMBER

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PACE INSTITUTE OF TECHNOLOGY & SCIENCES::ONGOLE
(AUTONOMOUS)

IV B.TECH I SEMESTER END REGULAR EXAMINATIONS, NOV-2022
INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS
(CE Branch)

Time: 3 hours

Max. Marks: 60

Note: Question Paper consists of Two parts (Part-A and Part-B)

PART-AAnswer **all** the questions in Part-A (5X2=10M)

Q.No.	Questions	Marks	CO	KL
1.	a) Write any two advantages of Database systems over File Systems.	[2M]	1	1
	b) Give examples of specialization and generalization.	[2M]	2	1
	c) What is integrity constraint?	[2M]	3	1
	d) What is the purpose of normalization?	[2M]	4	1
	e) What is the purpose of indexing?	[2M]	5	1

PART-B

Answer One Question from each UNIT (5X10=50M)

Q.No.	Questions	Marks	CO	KL
UNIT-I				
2.	a) Explain different data models.	[5M]	1	2
	b) What is Three tier schema architecture for data independence?	[5M]	1	1
OR				
3.	With a neat diagram explain Database system architecture.	[10M]	1	1
UNIT-II				
4.	Draw an ER Diagram to represent the following problem instance: A college has N number of departments. Each department offers M number of courses. Each department has P number of faculty. A faculty may work for more than one department. A student may register for a maximum of two courses offered by a single department.	[10M]	2	4
OR				
5.	a) Briefly explain attribute, tuple and relation.	[5M]	2	3
	b) Briefly explain different constraints.	[5M]	2	3
UNIT-III				
6.	Write SQL queries to extract information from the below given relation. Emp (id, name, gender, date_of_join, dept, designation, sal) 1. Select all the employees who have salary more than Rs. 10000 2. List the employees who have highest salary in each department. 3. List the senior most female employees of each department. 4. Print the department wise managers. 5. List the recently joined male employees of each department.	[10M]	3	1
OR				
7.	a) Demonstrate DDL and DML commands with example queries.	[5M]	3	2
	b) Demonstrate DCL and table level constraints with sample queries.	[5M]	3	2

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