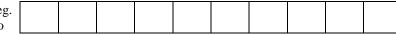
Reg. No





QP Code: RM23BCA011

GIET UNIVERSITY, GUNUPUR - 765022

B.C.A (Second Semester) Regular Examinations, May - 2024 BCA23202 - Database Management System

Time: 3hrs Maximum: 60 Marks

(The figures in the right hand margin indicate marks) PART – A	(2 x 5 = 10 Marks)		
Q.1. Answer <i>ALL</i> questions		CO#	Blooms
a. Why do we use DBMS?		CO1	Level K1
b. Write the syntax to ADD a Row to an existing table.		CO1	K1
c. Write 6 Notations of ER – Diagram.		CO2	K2
d. What is a Left Outer Join?		CO2	K2
e. List four advantages of RDBMS.		CO2	K2
PART – B	(10 x5=50 Marks)		
Answer ALL questions	Marks	CO#	Blooms Level
2. a. Explain the Functions of DBMS.	5	CO2	K2
b. Explain the ER – Model to the Relational Model with Example.	5	CO4	K4
(OR)			
c. What is Data Abstraction? Explain its 3 Levels.	5	CO2	K2
d. Explain Limitations of ER – Diagram.	5	CO3	К3
3.a. Difference between RDBMS & DBMS.	5	CO3	К3
b. Explain Data Manipulation Language with an example.	5	CO3	К3
(OR)			
c. What is data abstraction? With a neat diagram describe briefly Data independence.	5	CO3	К3
d. What is Attribute? Explain the types of Attributes in the ER Model.	5	CO3	К3
4.a. Explain 3 – Schema Architecture.	5	CO3	К3
b. What are Aggregate Functions? And list the aggregate functions supported by SQL?			
(OR)			
c. Explain Query processing and Query optimization.	5	CO3	К3
d. Difference Between Select and Project Operator.	5	CO3	K3
5.a. What is Join? Explain the Outer Join Operation.	5	CO3	К3

b.	Explain Database Development Lifecycle.	5	CO3	К3
	(OR)			
c.	What is Normalization? Difference between 2NF, 3NF & 4NF.	5	CO3	К3
d.	Explain 2NF, 3NF, 5NF, and BCNF suitable examples.			
6.a.	Explain ACID Property in DBMS.		CO3	К3
b.	What is DBMS Language? Explain the DCL & DML in Database Languages.	5	CO3	K3
	(OR)			
c.	What is Entity? Difference Between Weak Entity and Strong Entity with	5	CO3	K3
	examples.			
d.	Explain Generalization, Specialization, and Aggregation in DBMS.	5	CO3	K3

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