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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)**

	CO #	Blooms Level
Q.1. Answer <i>ALL</i> questions		
a. Why do we use DBMS?	CO1	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
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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	K3
3.a. Difference between RDBMS & DBMS.	5	CO3	K3
b. Explain Data Manipulation Language with an example.	5	CO3	K3
(OR)			
c. What is data abstraction? With a neat diagram describe briefly Data independence.	5	CO3	K3
d. What is Attribute? Explain the types of Attributes in the ER Model.	5	CO3	K3
4.a. Explain 3 – Schema Architecture.	5	CO3	K3
b. What are Aggregate Functions? And list the aggregate functions supported by SQL?			
(OR)			
c. Explain Query processing and Query optimization.	5	CO3	K3
d. Difference Between Select and Project Operator.	5	CO3	K3
5.a. What is Join? Explain the Outer Join Operation.	5	CO3	K3

b. Explain Database Development Lifecycle.	5	CO3	K3
(OR)			
c. What is Normalization? Difference between 2NF, 3NF & 4NF.	5	CO3	K3
d. Explain 2NF, 3NF, 5NF, and BCNF suitable examples.			
6.a. Explain ACID Property in DBMS.		CO3	K3
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 examples.	5	CO3	K3
d. Explain Generalization, Specialization, and Aggregation in DBMS.	5	CO3	K3

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