PRN:		Course Code :	BCA203

Second Year **BCA** End Semester Examination Summer 2023

Relational Database Management System

Day and Date: Wed, 14/06/23 Max Marks: **100**

Time : 2:00 - 5:00 pm Duration: **03** hrs

		Marks	Bloom's Level	CO
Q.1	**Attempt the following**			
	a) Identify the different advantages and disadvantages of DBMS.	08	L3	CO2
	b) Define data model and explain different types of data models.	08	L1	CO1
	OR			
	b) Explain database system application.	08	L2	CO1
Q.2	**Attempt the following**			
	a) Extend concept of Relational Models with its properties.	08	L2	CO2
	b) Write a note on Relational Basic operator	08	L2	CO3
	OR			
	b) Illustrate the types of Relational operations.	08	L2	CO3
Q.3	**Attempt any two from the following**			
	a) Discuss concept of Trigger in PL/SQL with an example.	08	L2	CO2
	b) Define a cursor and explain implicit cursor with example.	08	L1	CO2
	c) Explain in brief single row and multiple row function with examples.	08	L1	CO2
Q.4	**Attempt any two from the following**			
	a) Explain 1NF, 2NF with an example.	08	L4	CO4
	b) Define functional dependencies and give proofs of all inference rules.	08	L2	CO2
	c) Explain 4NF and 5NF with an example.	08	L2	CO3
Q.5	**Attempt any Two of the following**			
	a) Discuss the data dictionary storage in file	09	L3	CO4
	b) Illustrate RAID technology with example.	09	L2	CO3
	c) Extend the concept Sequential file organization ,B+ file organization, Indexed sequential access method (ISAM)	09	L2	CO3
Q.6	**Attempt any Two of the following**			
	a) Explain the concept of deadlock with an example	09	L2	CO4
	b) Explain conflict serializability and view serializability with an example.	09	L4	CO2
	c) Discuss operations, properties and states of transactions with an example.	09	L2	CO2

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