PRN:		Course Code :	BCA203

Second Year **B.C.A** End Semester Examination Winter 2023

Relational Database Management System

Day and Date: Thursday, 30/11/2023 Max Marks: **100**

Time : 2.00 to 5.00 PM Duration: **03** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	What is RDBMS? Explain its different models.	08	L1	CO1
	b)	Define constraints in RDBMS with example.	08	L1	CO1
		OR			
	b)	Explain types of SQL Commands?	08	L2	CO2
Q.2		**Attempt the following**			
	a)	What is SQL? explain its advantages.	08	L1	CO1
	b)	Differentiate database schema and database state.	08	L2	CO2
		OR			
	b)	What is security and integrity in DBMS?	08	L1	CO2
Q.3		**Attempt any two from the following**			
	a)	Describe the PL/SQL block structure in detail.	08	L4	CO4
	b)	What is functions? How oracle creates a function?	08	L1	CO2
	c)	What is a Trigger in SQL Server?	08	L1	CO3
Q.4		**Attempt any two from the following**			
	a)	Explain pitfalls in relational database design.	08	L2	CO2
	b)	What is decomposition? explain its types.	08	L1	CO1
	c)	Construct short note on Normalization.	08	L3	CO2

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Q.5		**Attempt any Two of the following**			
	a)	What is RAID ? explain its types.	09	L1	CO1
	b)	What is file organization? and give its types.	09	L1	CO1
	c)	Distinguish between data structure and file organization.	09	L4	CO4
Q.6		**Attempt any Two of the following**			
	a)	Illustrate the following. i)Transaction management ii)ACID iii)Query processing	09	L2	CO4
	b)	Describe concurrency control.	09	L4	CO4
	c)	Distinguish between backup and recovery.	09	L4	CO4

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