PRN:		Course Code :	MCA103

First Year **M. C. A.** End Semester Examination Summer 2024

Relational Database Management System

Day and Date: 29 MAY 2024 wed Max Marks: **100**

Time : 10:30AM To 01:30PM Duration: 03 hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Define is database? Explain architecture of DBMS.	08	L1	CO1
	b)	Define aggregation function and give types of SQL aggregation function?	08	L2	CO2
		OR			
	c)	Consider the following relational database schema consisting of the four relation schemas: passenger (pid, pname, pgender, pcity), agency (aid, aname, acity), flight (fid, fdate, time, src, dest), booking (pid, aid, fid, fdate) Answer the following questions using relational algebra queries: i) Find only the flight numbers for passenger with pid 123 for flights to Chennai before 06/11/2023. ii) Get the details of flights that are scheduled on both dates 01/12/2023 and 02/12/2023 at 16:00 hr. iii) Get the complete details of all flights to New Delhi. iv) Get the details about all flights from Chennai to New Delhi.	08	L2	CO1
Q.2		**Attempt the following**			
	a)	Describe the concept cursor in PL/SQL with example?	08	L2	CO2
	b)	Define function dependency? Give its type with an example?.	08	L2	CO3
		OR			
	b)	Define Normalization? explain with example Fist, Second and Third normal form.	08	L2	CO2
Q.3		**Attempt the following**			
	a)	Describe concept of RAID 0, RAID 1, RAID 2 and RAID 3 with diagram.	08	L2	CO3
	b)	Discuss file organization concept in brief with its types.	08	L4	CO4
		OR			
	b)	Write a note on data dictionary in RDBMS with example.	08	L3	CO4
Q.4		**Attempt the following**			

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	a)	State the concept of deadlock. Give inputs in deadlock handling.	08	L4	CO3
	b)	Write a note on concurrency control with (W-W conflict, W-R conflict).	08	L3	CO4
		OR			
	c)	Extend concept of query processing in detail.	08	L3	CO4
Q.5		**Attempt any Two of the following**			
	a)	Define Reasoning and its types with an example	09	L2	CO3
	b)	Compare Deductive and inductive Reasoning.	09	L5	CO3
	c)	State truth maintenance system and its roles.	09	L2	CO3
Q.6		**Attempt any Two of the following**			
	a)	Discuss different responsibilities of database administrator.	09	L2	CO3
	b)	Explain the concept of exception handling with example.	09	L2	CO4
	c)	Write a note on concurrency control with (W-W conflict, W-R conflict).	09	L1	CO4

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