PRN:		Course Code :	PCA105R

First Year **MCA** End Semester Examination Winter 2023

Advanced Database Concept

Day and Date: saturday 16/12/2023 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)	Explain the levels of Abstraction with diagram.	08	L2	CO1
	b)	Explain DBMS Architecture with its three types.	08	L2	CO1
		OR			
	b)	Compare between Delete and Truncate Statements	08	L2	CO1
Q.2		**Attempt the following**			
	a)	List and explain Data types in PL/SQL	08	L1	CO2
	b)	Construct PL/sql Block Structure with its syntax and Example.	08	L3	CO2
		OR			
	b)	Explain Loop statements in pl/sql with syntax and example.	08	L2	CO2
Q.3		**Attempt any two from the following**			
	a)	Construct sequence with start value 2 , increment value by 2 and apply it on empid of employee table.	08	L3	CO4
	b)	What is Procedure ? Describe its three parameters	08	L1	CO4
	c)	Develop a Function to update salary of manager by 1000 from manager table whose employee id given by user.	08	L3	CO4
Q.4		**Attempt any two from the following**			
	a)	What is Raise Exception ? Explain using its syntax and example.	08	L1	CO2
	b)	What is cursor? Explain implicit Cursor Atributes.	08	L1	CO4
	c)	Create cursor for update fees of student by 900 whose salary is less than 10000	08	L3	CO4
Q.5		**Attempt any Two of the following**			
	a)	What is Static SQL? explain with the help of pl/sql block(example).	09	L1	CO3
	b)	Describe Trigger. Explain Statement level trigger and row level Trigger with example.	09	L3	CO4
	c)	Compare Static and Dynamic SQL.	09	L4	CO4
Q.6		**Attempt any Two of the following**			
	a)	Implement ARIES algorithm.	09	L4	CO3
	b)	What is Serializability.explain its types.	09	L2	CO3
	c)	Explain ACID Properties.	09	L2	CO3

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