PRN:		Course Code :	PCA105R

First Year M.C.A. Semester End Examination Winter 2024

Advanced Database Concepts

000387

Day and Date: Wed - 4 DEC 2024 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)	Distinguish DDL and DML Commands.	08	L4	1
	b)	Explain DBMS, Types of DBMS.	08	L2	1
		OR			
	b)	Illustrate aggregate function and elaborate Group By clause.	08	L3	1
Q.2		**Attempt the following**			
	a)	Explain Architecture of PL/SQL.	08	L2	2
	b)	Write PL/SQL Program to enter marks of three subjects, find its total, percent and grade accordingly.	08	L3	2
		OR			
	b)	Explain FOR LOOP with suitable PL/SQL.	08	L3	2
Q.3		**Attempt any two from the following**			
	a)	Explain Sequences with syntax with an example.	08	L2	2
	b)	Write PL/SQL block with procedure to read roll no of student to display student course fees, paid fees and remaining fees. Use Following tables : course(cno,name,duration,fees) , student(rno, name, dob, doj, cno) , receipt(recno, recdate, recamt, rno). Assume appropriate data types.	08	L5	4
	c)	Explain Function in DBMS and its PL/SQL block using function.	08	L5	4
Q.4		**Attempt any two from the following**			
	a)	Explain Error handling. Types of Error handling. Explain a suitable program example.	08	L3	3
	b)	Explain Parameterized Cursor with a suitable example.	08	L3	3
	c)	Explain any four system defined exceptions.	08	L2	3
Q.5		**Attempt any Two of the following**			
	a)	Distinguish between Static SQL and Dynamic SQL.	09	L4	3
	b)	Explain Triggers and its purpose.	09	L4	3
	c)	Write a trigger to update salary of employee. Before updating salary file copy it to another file.	09	L5	3
Q.6		**Attempt any Two of the following**			
	a)	Explain ACID Properties in detail.	09	L3	3
	b)	Describe Deadlock in RDBMS.	09	L2	3
	c)	Explain ARIES algorithm and log-based recovery.	09	L4	3

Backlog