PRN:	CourseCode:	PCA3043R

SecondYear **M.C.A** Mid Semester Examination winter 2024

Blockchain Technology

000404

Day and Date: Fri 29 NOV 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)	Explain Blockchain Technology with its benefits and Limitations.	08	L2	CO1
	b)	Illustrate the term proof of work (PoW) and Proof of Elapsed time(PoET) and proof of Burn(PoB)	08	L2	CO4
		OR			
	b)	Write CAP theorem with diagram.	08	L1	CO4
Q.2		**Attempt the following**			
	a)	Define Private key and Public key with example	08	L1	CO3
	b)	Differentiate centralized and Distributed Network.	08	L1	CO1
		OR			
	b)	Illustrate Cryptography term in Blockchain with example.	08	L1	CO3
Q.3		**Attempt any two from the following**			
	a)	Discuss Bitcoin in detail	08	L6	CO4
	b)	Elaborate Bitcoin transaction with example	08	L1	CO4
	c)	Tell the concept of Bitcoin improvement proposals(BIPs)	08	L1	CO2
Q.4		**Attempt any two from the following**			
	a)	Describe elements of Ethereum Blockchain	08	L6	CO2
	b)	State Ethereum Network indetail.	08	L1	CO4
	c)	What is Precompilied contracts	08	L1	CO4
Q.5		**Attempt any Two of the following**			
	a)	Explain Hyper Ledger concept with example.	09	L6	CO1
	b)	Discuss economic implications of Blockchain adoption	09	L2	CO2
	c)	state different types of wallet.	09	L4	CO4
Q.6		**Attempt any Two of the following**			
	a)	Design Smart Contract using solidity language.	09	L6	CO3
	b)	Show Recardian contract with Diagram	09	L2	CO4
	c)	Illaborate the Genesis Block in Blockchain with diagram.	09	L1	CO2

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