Paper / Subject Code: 42177 / BLOCK CHAIN (DLOC - IV)

BE/COMP/SEM VII/C-SCHEME/DLOC-IV/NOV 2023/01.01.2024

	(Time: 3 Hours)	(Total Marks: 80)	
N.B.:	 Question No. 1 is compulsory. Answer any three out of the remaining questions. Assume suitable data if necessary. Figures to the right indicate full marks. 	* (EXAM) *	
Q1.	Attempt the following (Any 4): a. Explain the concept of UTXO model of Bitcoin. b. Differentiate between hot and cold wallets c. Explain mining pool and its difficulty. d. Compare and contrast private and public blockchain. e. List and explain various types of nodes used in ethereur	m	(20)
Q2.	Attempt the following:a. Explain the function of state machine replication. Explain the function of state machine replication.b. Compare BFT and PBFT Consensus in detail.	nin with respect to	(10) (10)
Q3.	Attempt the following:a. Compare the role of MSP and Fabric CA. Explain thei blockchain.b. Explain ethereum architecture and workflow in detail.	r role in Hyperledger	(10) (10)
Q4.	Attempt the following: a. List and explain the types of test networks used in ether b. Explain different visibility specifier of functions in solid		(10) (10)
Q5.	Attempt the following: a. What is transaction structure? Explain transaction life c b. Explain the role of address and address payable in solice.		(10) (10)
Q6.	Write short notes on (Any 2): a. Consensus in Bitcoin b. Hyperledger Fabric c. Cryptography in Blockshoin		(20)
	c. Cryptography in Blockchain d. Defi Architecture		
