GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED– SEMESTER - VII EXAMINATION –WINTER-2021

Subject Code: 2678605   **Date: 01/12/2021**
Subject Name: Block Chain Technology
Time: 10:30 AM TO 01:00 PM   **Total Marks: 70**
Instructions:

    1. Attempt all questions.
    2. Make Suitable assumptions wherever necessary.
    3. Figures to the right indicate full marks.

Q.1	**(a)**	What is block chain? Explain Architecture of Block chain.	**07**
	(b)	Explain secure Hash algorithm and Distributed Hash tables.	**07**
Q.2	**(a)**	What is DLT? Explain DLT decentralize applications and databases?	**07**
	(b)	Explain consensus approach and algorithms.	**07**
		OR	
	(b)	Explain Byzantine agreement Methods.	**07**
Q.3	**(a)**	Explain Etherium block chain concept.	**07**
	(b)	Difference between smart contract and consensus.	**07**
		OR	
Q.3	**(a)**	Explain symmetric and asymmetric cryptography.	**07**
	(b)	Explain Merkle trees.	**07**
Q.4	**(a)**	Explain smart contract with an appropriate example.	**07**
	(b)	Explain following terms.	**07**

        (i)   Bitcoin Address.
        (ii)   Bitcoin wallet
        (iii)   Bitcoin supply

		OR	
Q.4	**(a)**	Law implementation and sentiment, characteristics in context of Smart contract.	**07**
	(b)	Explain Bitcoin block structure and working of Bitcoin.	**07**
Q.5	**(a)**	What is Robotics process automation? How block chain improve in the RPA technology.	**07**
	(b)	Explain block chain application in Insurance sector.	**07**
		OR	
Q.5	**(a)**	List various Block chain applications. Explain block chain application in Health care.	**07**
	(b)	Discuss block chain impact on cloud computing, Artificial intelligence, IOT.	**07**

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