Total No. of Questions: 8]	90	SEAT No. :
P-629		[Total No. of Pages : 2
	[6004]-583	
B.E. (Info	ormation Tech	nology)
BLOCKCE	IAIN TECHN	OLOGY
(2019 Pattern) (Semeste	er - VIII) (414	452D) (Elective - VI)

Time : 2½ *Hours*] [Max. Marks: 70 Instructions to the candidates: Attempt Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6 and Q.7 or Q.8 2) Neat diagrams must be drawn wherever necessary. Figures to the right indicate full marks. 3) Assume suitable data, if necessary. 4) What is Smart Contract? Explain types of Smart Contracts. **Q1**) a) [7] What is Ethereum? Give it's comparison with Bitcoin. [6] State and explain the various components of Ethereum. [5] c) **Q2**) a) What is Ethereum? Explain [7] Write Short Note on b) Ethereum Virtual Machine: EVM. i) Ethereum Programming Languages ii) Runtime Byte Code Explain solidity in detail. c) Draw and Explain the Architecture of Hyper ledger Fabric System.[6] What is Hyper ledger? Describe features of a Hyper ledger blockchain. [6] Differences between Ethereum & Hyper ledger blockchain platforms.[5] c) OR State and explain benefits of Hyper ledger Fabric. **Q4**) a) [6] How Does Hyper Ledger Fabric Work? Explain. b) [6] What is Hyperledger Technology and Hyperledger fabric?

c)

[5]

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Q 5)	a)	Short note on:	[7]	
		i) Tokenizing Shares and Fund Raising		
		ii) Challenges to tokenization		
	b)	State and explain different types of Consensus algorithm.	[6]	
	c)	How blockchain tokenization can help in enterprise systems? Elaboration		
			[5]	
		OR		
Q6)	a)	What is token? Describe technology behind tokenization.	[7]	
	b)	Describe the Consensus mechanism in brief.	[6]	
	c)	Discuss following consensus algorithms used in blockchain technological	gy.	
			[5]	
		i) Proof of work		
		ii) Proof of activity		
Q 7)	a)	Explain blockchain applications in Supply Chain Financing.	[6]	
	b)	Explain different aspects of Risks and Limitations of Blockchain.	[6]	
	c)	State and explain different aspect of healthcare where Blockch	ain	
		Technology can be used.	[5]	
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		OR	3	
Q 8)	a)	Explain role blockchain applications in Health Insurance.	[6]	
	b)	What are the selection Criteria for Blockchain platform for Application	ns?	
		Explain.	[6]	
	c)	Explain the "Evil Sides" of Blockchain and Legal Regulations		
		Blockchain.	[5]	
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		Blockchain. Sides of Blockchain and Legal Regulations Blockchain.		
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