Total	l No.	of Questions : 8] SEAT No. :		
PB	224	5 [Total No. of Pages : 2		
[6263]-83				
B.E. (Computer Engineering)				
BLOCKCHAIN TECHNOLOGY				
(2019 Pattern) (Semester - VII) (410243)				
Time	: 21/2	Hours] [Max. Marks: 70		
		ns to the candidates:		
		Solve questions Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.		
	,	Neat diagrams must be drawn wherever necessary.  Figures to the right indicate full marks.		
	•	Assume suitable data if necessary.		
<b>Q</b> 1)	a)	Discuss following consensus algorithms used in blockchain technology.[8]		
	7	i) Proof of work		
		<ul><li>ii) Proof of activity</li><li>iii) Proof of Burn</li><li>iv) Proof of Stake</li></ul>		
		iii) Proof of Burn		
		iv) Proof of Stake		
	b)	Explain in detail [6]		
		i) Bitcoin		
		ii) Ethereum		
		iii) Hyperledger		
	c)	Explain the concept of Bitcoin in Blockchain Technology. [4]		
		OR		
Q2)	a)	Discuss the difference between Bitcoin and Ethereum. [4]		
	b)	Explain the difference between a permissioned and permissionless		
		consensus approach. [4]		
	c)	Explain the Byzantine General Problem in the context of blockchain		
		consensus. [4]		
	d)	Explain the role of IOTA in the context of the Internet of Things (loT).[6]		
		P.T.O.		

<b>Q3</b> ) a)	What is Metamask, Illustrate in details	[9]
b)	List and explain types of cryptocurrencies.	[8]
	OR	
<b>Q4</b> ) a)	Compare and Contrast Combase and Binance.	[8]
b)	Differentiate between metmask and coinbase wallet.	[9]
<b>Q5</b> ) a)	What is Ethereum? Explain in detail it differs from trace	ditional
	cryptocurrencies.	[8]
b)	Identify two types of Ethereum networks and briefly explain the	purpose
	of each.	[9]
	OR S	
<b>Q6</b> ) a)	Explain the concept of a smart contract with an example.	[8]
b) \	How does Swarm contribute to decentralized storage in the E	thereum
	ecosystem?	[9]
<b>Q7</b> ) a)	Describe the role of blockchain in financial sector.	[9]
b)	Describe the role of blockchain in Government. sector.	[9]
	OR	; 0
<b>Q8</b> ) a)	Explain role of blockchain in healthcare.	(P) [9]
b)	Discuss potential challenges and benefits of implementing block Voting system.	chain in
,	Voting system.	[9]
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