Total No. of	Questions	:	8]
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SEAT No.:			
[Total	No. of Pages	:	2

PB2245

[6263]-83

B.E. (Computer Engineering)

		BLOCKCHAIN TECHNOLOGY	
		(2019 Pattern) (Semester - VII) (410243)	
Time : 2 ¹	/2 Hour	rs] [Max.Me	arks : 70
Instructi	ons to	the candidates:	
1)	Solve	questions Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.	
2)		diagrams must be drawn wherever necessary.	
3)	O	res to the right indicate full marks.	
4)	Assun	ne suitable data if necessary.	
Q1) a)	Disc	cuss following consensus algorithms used in blockchain technol	ogy.[8]
	i)	Proof of work	
	ii)	Proof of activity	
	iii)	Proof of Burn	
	iv)	Proof of Stake	
b)	Exp	plain in detail	[6]
	i)	Bitcoin	
	ii)	Ethereum	
	iii)	Hyperledger	
c)	Exp	plain the concept of Bitcoin in Blockchain Technology.	[4]
		OR	
Q2) a)	Disc	cuss the difference between Bitcoin and Ethereum.	[4]
b)	-	plain the difference between a permissioned and permiss sensus approach.	ionless [4]
c)	_	plain the Byzantine General Problem in the context of blocksensus.	ckchain [4]
d)	Exp	plain the role of IOTA in the context of the Internet of Things (1	oT). [6]

<i>Q3</i>)	a)	What is Metamask, Illustrate in details. [9]
	b)	List and explain types of cryptocurrencies. [8	[]
		OR	
Q4)	a)	Compare and Contrast Coinbase and Binance. [8	3]
	b)	Differentiate between metmask and coinbase wallet. [9)]
Q5)	a)	What is Ethereum? Explain in detail it differs from traditional cryptocurrencies. [8	
	b)	Identify two types of Ethereum networks and briefly explain the purpos of each. [9]	
		OR	
Q6)	a)	Explain the concept of a smart contract with an example. [8	3]
	b)	How does Swarm contribute to decentralized storage in the Ethereur ecosystem? [9]	
Q 7)	a)	Describe the role of blockchain in financial sector. [9])]
	b)	Describe the role of blockchain in Government. sector. [9])]
		OR	
Q 8)	a)	Explain role of blockchain in healthcare. [9)]
	b)	Discuss potential challenges and benefits of implementing blockchain in Voting system. [9]	

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