Total No	of Q	uestions	:	8]
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## [6354]-487

## **B.E.** (Computer Engineering) **BLOCKCHAIN TECHNOLOGY**

		(	(2019 Pattern) (Semester - VII) (410243)				
Time	: 21/2	Hou	ers] [Max. Mar.	ks : 70			
Instri	uction	is to i	the candidates :				
	1)	Solv	re questions Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.				
2) Neat diagrams must be drawn wherever necessary.							
	3)	Figures to the right indicate full marks.					
	4)	Assu	ume suitable data, if necessary.				
<b>Q</b> 1)	a)	Disc	cuss in brief Bitcoin and Ethereum cryptocurrencies.	[8]			
b) Explain following:			lain following:	[9]			
		i)	Proof of work				
		ii)	Proof of stake and				
		iii)	Proof of activity				
			OR				
<b>Q</b> 2)	(22) a) List and explain types of Blockchain.						
	b)	Explain Byzantine general problem scenario. Explain the problem and its probable consequences. [9]					
<b>Q</b> 3)	a)	Diff	ferentiate between Coinbase and Binance.	[9]			
	b)	Wha	at is Metamask? Discuss any one application of Metamask.	[8]			
			OR				
<b>Q</b> 4)	a)	List	and explain types of crypto wallet.	[8]			
	b)	Wri	te a note on Bitcoin.	[9]			
<b>Q</b> 4)	a)	List	OR and explain types of crypto wallet.	[8]			

*P.T.O.* 

<b>Q</b> 5) a)	What is Swarm,	and how	does it	address	the	need	for	decentralized
storage in the Ethereum network?								[9]

b) What is Ethereum? Define smart contracts and give an example of a real-world scenario where a smart contract could be beneficial. [9]

OR

- Q6) a) State and explain the various components of Ethereum. Explain the various types of Ethereum Networks.[9]
  - b) Explain Decentralized Messaging Platform Whisper and its purpose in the Ethereum ecosystem. [9]
- Q7) a) With the help of neat diagram explain how blockchain can be used for any supply chain application.[9]
  - b) Explain the use of blockchain technology in the government sector. 'Which are the different blockchain based applications proposed for it? [9]

OR

- **Q8**) a) Explain how blockchain and IOT can work together. [9]
  - b) List out the applications of blockchain Technology in different areas. Explain any 2 in detail. [9]

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