PA-914

SEAT No. : 8190954274

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[5927]-344

B.E. (Computer Engineering) BLOCKCHAIN TECHNOLOGY (2019 Pattern) (Semester - VII) (410243)

[Max. Marks: 70 Time: 2½ Hours] Instructions to the candidates: Answer 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. 2) Figures to the right indicate full marks. 3) Assume suitable data, if necessary. Explain in detail following blockchain platforms [8] **Q1**) a) Public Private ii) iii) Consortium **IoTA** iv) Discuss following consensus algorithms used in blockchain technology.

[6] b) The second of th i) Proof of activity ii) Explain proof of stake (ROS)? c) OR Explain consensus in blockchain in details. **Q2)** a) Explain in detail b) Bitcoin i) Ethereum ii) Hyperledger iii) Discuss Byzantine General problem. c) OR

(2) 2)	List & explain types of crypto currency.	[6]
Q3) a)	What is Metamask? Illustrate in detail.	[6]
b)	Differentiate between coinbase & Binance.	[5]
c)	Differentiate between combast & Barrier	
	OR	
Q4) a)	What is cryptogurrency? Explain in detail. 10	[6]
b)	Explain in detail crypto wallets metalwast bicance combase	[6]
c)	Explain in detail Bitcoin.	[5]
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Q5) a)	What is Ethereum? Explain.	[8]
b)	Explain solidity in detail.	[6]
c)	Discuss swarm Decentralized storage platform.	[4]
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		[0]
Q6) a)	What is smart contract? Explain types of smart contracts.	[8]
b)	Discuss whisper Decentralized Messaging platform.	[6]
c)	Explain Ethereum Virtual Machine in detail. 3	[4]
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Q7) a)	Explain Block chain applications in retail & banking services.	[6]
b)	Explain role of blockchain in IoT.	[6]
c)	Explain role of blockchain in Healthcare.	(5) [5]
C))
	OR	
		[6]
Q8) a)	Discuss integration of blockchain with other domains.	[6]
b)	Explain blockchain applications in financial services.	[6]
c)	= 1: Line of blookabain government sector	[5]
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