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## Seventh Semester B.E. Degree Examination, Dec.2023/Jan.2024 **Blockchain Technology**

Time: 3 hrs.

Max. Marks: 100

Tim	e: 3	hrs.	viaiks. 100
	No	ote: Answer any FIVE full questions, choosing ONE full question from each n	odule.
		Module-1	
1	9	Explain the benefits of Blockchain.	(10 Marks
1	a. b.	Explain how blockchain accumulates blocks.	(10 Marks
	υ.	Explain now blockenam accumulates of the same	
		OR	
2	a.	Discuss distributed ledgers type of blockchain.	(10 Marks
_	b.	Explain distributed database Byzantine General's problem.	(10 Marks
	0.	Explain distributed distributed by	
		Module-2	
3	a.	With a neat diagram, explain stream ciphers.	(10 Marks
	b.	With a neat diagram, explain block ciphers.	(10 Mark
		OR	30
4	a.	How is RSA key pair generated?	(10 Mark
	b.	With a neat diagram, explain point addition in ECC.	(10 Mark
		Module-3	:
5	a.	What are the three services provided by name coin and explain merged mining	in name cor
	1.	What are the parameters used by the scrypt to generate derived key in Litecoin.	
	b.	what are the parameters used by the scrypt to generate derived key in Excoonsi	(2021
		OR	
6	0	Explain the steps that describe the transaction life cycle.	(10 Mark
U	a. b.	How is the transaction fee calculated? Explain.	(10 Mark
	υ.	110W is the transaction for careament = 1-p	
		Module-4	
7	a.	Explain Ricardian contract with its properties.	(10 Mark
•	b.	Explain Ethereum blockchain.	(10 Mark
		OR	C
8	a.	Explain Externally Owned Accounts (EOAs) and Contract Account (CAs) typ	es of accour
		in Ethereum.	(10 Mark
	b.	With a neat diagram, explain execution environment in ethereum.	(10 Mark
		Module-5	(10 Mark
9	a.	Explain consensus protocol process in ripple.	(10 Mari
	b.	Discuss Kadena's consensus mechanism.	(10 111111
		OR	
4.0		Explain the application of blockchain in border control by government.	(10 Marl
10	a.	With a next diagram, explain layered model of IOT.	(10 Marl

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

b. With a neat diagram, explain layered model of IOT.