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B.Tech DEGREE EXAMINATION, NOVEMBER 2023

Seventh Semester

18CSE433T - TRUST BASED COMPUTING

(For the candidates admitted during the academic year 2020 - 2021 & 2021 - 2022)

Note:

PART - A (20 × 1 = 20 Marks) Answer all Questions					Max. Marks: 100				
					со				
1.	What is the full-form of TCP? (A) Trusted Cloud Platform (C) Trustable Computing Platform	(B) Trusted Computing Platform (D) Trustable Cloud Platform		1	1				
2.	The is the term applied for splits i (A) Mergers (C) Forks	(B) Division (D) Splits		2	-1-				
3.	The is not a cryptographic algorithm (A) RSA (C) Markov chain	hm. (B) DSA (D) Diffie-Helman		2	1				
4.	What is the security incident when a network resources? (A) Re-entrancy attack (C) Brute force attack	ttackers gain control over the blockchain (B) 51% attack (D) Invasion attack	CASSING	2	1				
5.	What does a block in a blockchain have? (A) Header and Distributed ledger (C) Transactions and Bitcoins	(B) Bitcoin and Input (D) Header and Transactions		1	2				
6.	Which of the following is not a blockcha (A) Decentralized control (C) Direct exchange of value through tokens	in core value propositions? (B) Collaboration across organizational boundaries (D) Mutability	1	.1.	3				
7,		which generals must coordinate an attack (B) Communication (D) Ledger	ngeride 1 2011 No	I	2				
8.	In blockchain, tree stores a digital fingerprint of the entire set of tran (A) Merkle (C) AVL	Il the transactions in a block by producing a sactions. (B) Binary (D) DAG		(3 - e)	2				
9.	Which cryptocurrency does not have stro (A) Monero (C) ZCash	onger anonymity protection? (B) Dash (D) Bitcoin	2 1. jn	4	2				
10.	The is the platform that uses I network. (A) Distributed Ledger technology (C) Consensus mechanisms	(B) Decentralization (D) Blockchain technology	1	2	2				

(D) Blockchain technology

		The American State of the Control of	S	0	2
11.		ower is spent to B) Mining D) Adding the block	1	2	3
12.		transactions? B) Nonce D) Block rewards	1	.2.	3
13.		els in Bell-lapadula model? B) Secret C) Classified	1	4	4
14.	` '	orces B) Access Control D) Rules	1	2	.4
15.	·	f B) Biba Integrity Model D) Clarke Wilson Security Model	1	2	4
16.		s of the security product evaluation? 3) Orange Books O) Green Books	1	2	4.
17.		ssed in P2P reputation system? 3) 51% attack D) Distributed Algorithm	1	1	5
18.		orks? 3) Government D) Validators	1	2	5
19.		ement and Threat exposure are the B) Technology Risk D) Governance Risk	1	2	5
20.	, , , , , , , , , , , , , , , , , , ,	information is used. B) False D) high-quality	1	2	5
PART - B $(5 \times 4 = 20 \text{ Marks})$ Answer any 5 Questions				Marks BL	
21.	Differentiate between hard and soft fork with a	an example	4	2	i
22.	22. How blockchains are used for illegal activity? Explain with an example.			2	2
23.	23. How the crypto economic feature of the blockchain helps in improving the network's security? Describe.			2	3
24.	24. How are the protection mechanisms handled in Trusted Computing Base?			3	4
25.	25. Explain the risks associated with E-commerce.			4	5
26.	Did Satoshi's solution pave way for the blocke	chain's growth? Explain.	4	1	3
27.	Describe about why regulations are needed in	developing new technologies.	4	6	3
PART - C ($5 \times 12 = 60 \text{ Marks}$) Answer all Questions				s BL	CO

28.	the uses of personal tokens.		_	-
	(OR)			
	(b) Is timing attack related to the outcome of a successful 51% attack? Justify and explain timing attack with an example.			
29.	(a) Explain the structure of Bitcoin Blockchain with a diagram. (OR)	12.	2	2
	(b) Explain the logic puzzle that Satoshi used to solve the puzzle of digital cash.		- 2	
30.	(a) Smart contracts turn a distributed ledger into a distributed computer. Justify and explain the statement. (OR)	12	2	3
	(b) Explain regulation in terms of distributed ledger technology.			
31.	(a) Explain the major categories of regulatory controversies involving crypto currencies and distributed ledgers.	12	2	3
	(OR)			
2	(b) How the crypto economic feature of the blockchain helps in improving the network's security? Explain.			
32.	(a) Considering the example of a software development, explain the principles of security testing.	12	2	5
	(OR)			
	(b) Explain in detail about the layers of protection of TCB.			

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