THE CORE-BITCOIN DIPLOMA 2024 CHAPTER 9 QUIZZES (COHORT 6)

* Indicates required question What regulates Bitcoin instead of government bureaucracies? * Mark only one oval. Central Banks IMF Algorithm Stock Market What happens when a Bitcoin transaction is sent? * Mark only one oval. It is stored on a central server It is manually approved by Bitcoin developers) It disappears after 24 hours It is processed by nodes and miners What does public key cryptography enable? * 3. Mark only one oval. A centralized banking system Faster mining rewards The elimination of digital signatures

Secure communication without sharing private keys

4.	What is a digital signature in Bitcoin? *
	Mark only one oval.
	The transaction is still valid
	The transaction disappears
	The hash of the transaction changes completely
	The sender automatically gets a refund
5.	What is a hash function? *
	Mark only one oval.
	A one-way function that creates a unique digital fingerprint
	A mining reward system
	A tool for sending encrypted messages
	A reversible encryption process
6.	What algorithm does Bitcoin use for hashing? *
	Mark only one oval.
	MD5
	SHA-256
	RSA
	ΔES

7.	What happens to a UTXO after it is spent? *
	Mark only one oval.
	It disappears from the network
	It remains unchanged
	It is recreated into a new UTXO for the recipient
	It turns into a private key
8.	Why is hashing important for security in Bitcoin? *
	Mark only one oval.
	It helps governments track transactions
	It ensures transaction integrity and prevents tampering
	It makes Bitcoin inflation-proof
	It increases transaction fees
9.	What is the purpose of a public key in Bitcoin transactions? *
	Mark only one oval.
	To encrypt private keys
	To store Bitcoin in a secure vault
	To allow others to verify a transaction's authenticity

THE CORE-BITCOIN DIPL	OMA 2024 C	THAPTER 9 (MII77FS (
IIIL COKT-DIICOIN DILL	UMA 2024 C	JIAFILN 3 (/UILLLO (

10.	Why can't a private key be easily derived from a public key? *		
	Mark only one oval.		
	Because Bitcoin uses strong one-way cryptographic functions		
	Because they are stored on different servers		
	Because they are encrypted by the government		
	Because they change daily		
11.	How do Bitcoin nodes contribute to the network's decentralization? *		
	Mark only one oval.		
	By competing to find new blocks		
	By setting transaction fees		
	By generating new bitcoins through mining		
	By maintaining copies of the blockchain and enforcing rules		
12.	What is the mempool in Bitcoin? *		
	Mark only one oval.		
	A storage location for lost bitcoins		
	A waiting area for unconfirmed transactions		
	A special mining pool		
	A backup for the blockchain		

13.	How often does Bitcoin undergo a halving event? *
	Mark only one oval.
	Every year
	Every 50,000 blocks
	Every 100,000 blocks
	Every 210,000 blocks
14.	What does a Bitcoin node do when it receives a new transaction? *
	Mark only one oval.
	It verifies the transaction and shares it with other nodes
	It adds it directly to the blockchain
	It stores it permanently
	It sends it to miners for approval
15.	What happens when Bitcoin mining difficulty increases? *
	Mark only one oval.
	The Bitcoin supply increases
	Fewer transactions are processed
	It becomes harder to find a valid block hash

This content is neither created nor endorsed by Google.

Google Forms

6 of 6