THE CORE-BITCOIN DIPLOMA 2024 CHAPTER 9 QUIZZES (COHORT 7)

* Indicates required question

1.	What do nodes in the Bitcoin network do? *
	Mark only one oval.
	Print new bitcoins
	Set Bitcoin's price
	Validate transactions and keep a copy of the ledger
	Connect banks to the blockchain
2.	Why is Bitcoin called decentralized? *
	Mark only one oval.
	Because it is regulated by the United Nations
	Because it runs on a single global server
	Because it is stored in physical vaults
	Because no single entity controls the network
3.	Who plays a key role in helping Bitcoin gain adoption? *
	Mark only one oval.
	Central banks
	International Monetary Fund
	Retail stores
	Bitcoin education and community projects

4.	What is a major advantage of using Bitcoin? *
	Mark only one oval.
	It increases reliance on banks
	It offers free bank accounts
	It gives users control over their own money
	It eliminates the need for security
5.	What happens if you lose your Bitcoin private key? *
	Mark only one oval.
	You lose access to your bitcoins permanently
	You can reset it using your email
	A support team restores access
	The Bitcoin system will recover it after 24 hours
6.	What is the primary purpose of a hash in Bitcoin? *
	Mark only one oval.
	To store private keys
	To verify data integrity
	To create public addresses
	To mine Bitcoin blocks

7.	Which two hash functions does Bitcoin commonly use? *
	Mark only one oval.
	MD5 and SHA1
	HMAC and SHA3
	SHA-256 and RIPEMD-160
	AES and Blowfish
8.	What is a UTXO in Bitcoin? *
	Mark only one oval.
	A user identification number
	An unspent transaction output
	A digital signature
	A type of Bitcoin wallet
9.	Why is the output length of a hash function important in Bitcoin? *
	Mark only one oval.
	It helps determine block size
	It simplifies mining
	It allows fixed-length outputs regardless of input size
	It identifies double-spends

10.	transaction?	*
	Mark only one oval.	
	It is returned as a new "change" UTXO	
	It is burned	
	It is added to miner fees	
	It is split equally among all nodes	
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? *
14.	
	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

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