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EC-Council Blockchain Developer Certification (BDC)

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Question: 1

Which layer of a blockchain architecture is primarily responsible for defining the rules that determine how nodes agree on the state of the ledger?

A. Consensus layer
B. Data layer
C. Application layer
D. Storage layer

Answer: A

Question: 2

What determines which miner successfully adds the next block to the Bitcoin blockchain?

A. Longest wallet balance
B. Miner with lowest transaction fees
C. Node with most network connections
D. First miner to solve the PoW puzzle

Answer: D

Question: 3

Why do dApps often suffer from slower transaction throughput compared to centralized apps?

A. They require AI processing for each transaction
B. Blockchain consensus mechanisms introduce delays
C. They lack browser support
D. They use nonstandard programming languages

Answer: B

Question: 4

What is the purpose of hashing functions in Python-based blockchain implementations?

A. Compressing images
B. Building user interfaces
C. Creating unique block identifiers
D. Reducing network latency

Answer: C

Question: 5

Which vulnerability arises when a smart contract sends external calls before updating its own state?

A. Dictionary attack
B. Reentrancy attack
C. Side-channel leakage
D. Block timestamp manipulation

Answer: B

Question: 6

Which emerging trend aims to improve blockchain scalability by processing transactions off-chain while maintaining security?

A. Proof-of-Work mining
B. JSON data compression
C. Layer-2 scaling solutions
D. Ledger pruning

Answer: C

Question: 7

Why is private key management considered the most critical security responsibility for blockchain users?

A. Private keys cannot be restored once lost
B. Private keys rotate automatically
C. Private keys contain the wallet balance
D. Private keys reduce transaction speed

Answer: A

Question: 8

How does tokenization improve liquidity in financial markets?

A. By reducing the number of market participants
B. By enforcing mandatory custodial services
C. By eliminating the need for digital wallets
D. By dividing assets into tradable digital units

Answer: D

Question: 9

Which factor most directly influences a miner's chance of successfully mining a block in Proof-of-Work systems?

A. The miner's wallet balance
B. The miner's hash rate
C. The number of smart contracts deployed
D. The number of peers connected

Answer: B

Question: 10

During smart contract development, what step helps reduce vulnerabilities before deployment?

A. Performing code reviews and testing
B. Minimizing use of version control
C. Skipping external audits
D. Embedding private keys in code

Answer: A

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