

Eccouncil 312-81

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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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