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Question: 1

What is the primary purpose of hashing in blockchain?

A. Encrypting user credentials
B. Ensuring immutability and data integrity
C. Generating private keys for accounts
D. Synchronizing node clocks

Answer: B

Question: 2

In the full synchronization method, what data is primarily downloaded?

A. Only the latest block headers.
B. Full state and transaction data from genesis to the latest block.
C. Only finalized blocks.
D. Cryptographic hashes of transactions.

Answer: B

Question: 3

What mechanism is often used to ensure privacy in a blockchain transaction?

A. Asymmetric encryption of transaction data.
B. Offchain storage of sensitive data.
C. Use of private sidechains.
D. All of the above.

Answer: D

Question: 4

Which statements about logs and events in Ethereum are correct?

A. Logs are triggered by transactions interacting with smart contracts.
B. Events are part of the transaction receipt and stored on-chain.
C. Logs are indexed for efficient searchability.
D. Smart contracts can directly query logs.
E. Logs are retained permanently in the blockchain database.

Answer: A,B,C

Question: 5

Which components are critical for node discovery in Ethereum?

A. Node table
B. RLPx protocol
C. DNS resolution
D. Enode address
E. Consensus algorithm

Answer: A,B,D

Question: 6

What does the transaction signing process in Ethereum involve? (Choose two)

A. Using the sender's private key to generate a digital signature.
B. Encrypting the transaction data to prevent tampering.
C. Verifying the signature with the sender's public key.
D. Encoding the transaction data in Base64 format.

Answer: A,C

Question: 7

How is account storage organized in Ethereum?

A. As a flat database indexed by transaction hash.
B. As a key-value store inside a Merkle Patricia tree.
C. Using a hierarchical file system.
D. In a decentralized file-sharing system.

Answer: B

Question: 8

What does blockchain propagation ensure in a distributed ledger?

A. All nodes store the same private key.
B. Transactions are executed at the same time across all nodes.
C. All nodes in the network maintain a consistent and synchronized ledger.
D. Blocks are mined sequentially without verification.

Answer: C

Question: 9

Which parameters can be configured in a Genesis file?

A. Chain ID
B. Gas price
C. Difficulty
D. Block size limit

Answer: A,C

Question: 10

What is the primary function of an RPC node in a blockchain network?

A. To perform consensus validation for transactions.
B. To provide an interface for client applications to interact with the blockchain.
C. To store the entire blockchain state persistently.
D. To manage network connectivity between nodes.

Answer: B

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