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Question: 1

What are the benefits of deploying a Besu node on a trusted private network?
(Choose two)

Response:

- A. Improved consensus scalability.
- B. Enhanced access control over nodes.
- C. Ability to participate in Ethereum mainnet staking.
- D. Better data privacy and protection.

Answer: B,D

Question: 2

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

Response:

- 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

Which elliptic curve is used in Ethereum for cryptographic operations?

Response:

- A. P-256
- B. Curve25519
- C. secp256k1
- D. RSA-2048

Answer: C

Question: 4

Which components are part of the Ethereum Virtual Machine (EVM)?
(Choose two)

Response:

- A. Execution environment for smart contracts.
- B. Consensus mechanism for blockchain.
- C. Bytecode interpreter for smart contracts.
- D. Hashing algorithm for transaction verification.

Answer: A,C

Question: 5

What is the primary use of EIP-712 structured data signing in Ethereum?

Response:

- A. To enable on-chain encryption of data.
- B. To provide a human-readable representation of signed data.
- C. To replace the use of private keys in transactions.
- D. To simplify the process of creating smart contracts.

Answer: B

Question: 6

Which tool is commonly used to monitor the health and performance of a Besu node?

Response:

- A. Postman
- B. Prometheus
- C. Jenkins
- D. Ansible

Answer: B

Question: 7

Which steps are required for a node to join an Ethereum-based blockchain network?

Response:

- A. Sync the blockchain state.
- B. Validate the genesis block.
- C. Stake tokens.
- D. Download all historical transactions.
- E. Establish connections with peers.

Answer: A,C,E

Question: 8

What is a key characteristic of Proof of Authority (PoA) consensus?

Response:

- A. It relies on computational power for validation.
- B. Validators are pre-approved and known identities.
- C. It allows nodes to stake tokens for validation rights.
- D. It uses Byzantine Fault Tolerance for scalability.

Answer: B

Question: 9

What does "gas-free mode" in Besu signify?

Response:

- A. Transactions are processed without any gas fees.
- B. Gas costs are capped at a fixed value.
- C. Gas fees are automatically reimbursed to the sender.
- D. Validators do not receive gas fees as rewards.

Answer: A

Question: 10

How is account storage managed in Ethereum?

(Choose two)

Response:

- A. Using hierarchical file directories.
- B. As key-value pairs in a Merkle Patricia tree.

- C. With distributed storage mechanisms like IPFS.
- D. Using hashes for efficient lookup of storage slots.

Answer: B,D



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