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Question: 1

How does the Proof of Stake (PoS) consensus mechanism contribute to network security?
Response:

- A. By requiring validators to stake Ether, aligning their incentives with network security
- B. It does not contribute to security but increases transaction speed
- C. By eliminating the need for validators
- D. By allowing anyone to validate transactions without any stake

Answer: A

Question: 2

Who are miners in the context of the Ethereum network?
Response:

- A. Individuals who create new smart contracts
- B. Users who perform transactions on the network
- C. Nodes that validate and add transactions to the blockchain
- D. Developers who write Ethereum Improvement Proposals

Answer: C

Question: 3

Why is Solidity the preferred language for Ethereum smart contracts?
Response:

- A. It is the only language supported by Ethereum.
- B. Because of its similarity to Javascript, making it easier to learn.
- C. It is specifically designed for Ethereum to create efficient and secure smart contracts.
- D. It requires less gas for transactions.

Answer: C

Question: 4

Which programming language is primarily used for writing Ethereum smart contracts?

Response:

- A. Python
- B. Solidity
- C. Java
- D. C++

Answer: B

Question: 5

How can Ethereum blockchain technology benefit supply chain management?

Response:

- A. By centralizing data storage
- B. Through transparent and immutable record-keeping
- C. By replacing all traditional supply chain tools
- D. Ethereum technology is not applicable to supply chain management

Answer: B

Question: 6

What is a hardware wallet in the context of Ethereum?

Response:

- A. A physical device that securely stores private keys
- B. A software program for mining Ether
- C. A paper document with key details
- D. A cloud service for storing Ether

Answer: A

Question: 7

In what way does Ethereum embody the principle of decentralization?

Response:

- A. By having a single governing body.
- B. Through its distributed ledger technology, where no single entity controls the network.

- C. By decentralizing only the currency aspect.
- D. Ethereum is not truly decentralized.

Answer: B

Question: 8

What happens to a user's holdings if a hard fork occurs in Ethereum?

Response:

- A. The holdings are duplicated across both chains.
- B. The holdings are lost.
- C. The holdings remain only on the original chain.
- D. The user must choose which chain to keep their holdings on.

Answer: A

Question: 9

Besides Solidity, which other language can be used for Ethereum smart contract development?

Response:

- A. Python
- B. JavaScript
- C. Vyper
- D. Ruby

Answer: C

Question: 10

Why is private key management crucial for Ethereum users?

Response:

- A. It determines the value of Ether
- B. Private keys are required for blockchain updates
- C. Loss or theft of private keys can result in loss of access to Ethereum assets
- D. Private keys are required for every transaction

Answer: C

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