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QUESTION 1

When a new block is mined:

- A. a list of transactions as well as uncles is incorporated in the block. All gas that is used during those transactions is added to the miners' balance. Also, the block reward is added to the miner. Then the same transactions are run again by every participating node in the network to achieve consensus.
- B. a list of transactions is incorporated in that block. Gas used during the execution is attached to the executing contracts while the block reward is automatically spread across the mining pool to ensure a fair spread. Consensus is reached by a special form of hash code.

Correct Answer: A

QUESTION 2

When you are programming a game like poker or battleships where you need to hide opponents' values is:

- A. with private state variables. This way nobody else other than the smart contract itself can see the information.
- B. with external contracts holding those values. This way we can make sure that the information flow is following a clear logic and nobody else can access this information.
- C. You can't hide anything on the blockchain, because the information is public, just the call is private which means only other smart contracts would be limited in accessing that information.

Correct Answer: C

QUESTION 3

Smart Contracts:

- A. are always living on the same address, because the blockchain is deterministic. So, one account can always have one smart contract.
- B. are having the same address as the EOA.
- C. are sitting on their own address. The Address is created from the nonce and the EOA address and could be known in advance before deploying the smart contract.
- D. the address of the smart contract is a random address which gets generated by the miner who mines the contract-creation transaction.

Correct Answer: C

QUESTION 4

If you are starting a new ERC20 token:

- A. it would be best to start from scratch, just looking at the required interface.
- B. it is beneficial to copy and paste the already existing code from the Ethereum wiki and modify this until you like it.
- C. best is to start with an audited implementation, for example from OpenZeppelin, in order to reuse already existing code.

Correct Answer: C

QUESTION 5

Externally Owned Accounts:

- A. can be destroyed using the selfdestruct keyword. This way all remaining ether will be sent to the receiver address, regardless if they have a fallback function or not.
- B. are bound to a private key which is necessary to sign transactions outgoing from that account.
- C. are logical opcodes running on the ethereum blockchain very similar to smart contracts.

Correct Answer: B

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