

## CBDE<sup>Q&As</sup>

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## QUESTION 1

Proof of Work (PoW) vs. Proof of Stake.

- A. PoW is computationally intensive which requires lots of energy. On the other hand, miners earn straightforward a reward for mining a block and incorporating transactions.
- B. PoW is better than PoS, because with PoS we increase the amount of energy spent on the network.
- C. PoS is mining with specialized new hardware that has to be purchased with a stack of Ether in the network. Hence the Name: Proof of Stake, which derives from Stack.

Correct Answer: A

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## QUESTION 2

To avoid issues during Ethereum platform upgrades:

- A. it's good to inform users about the updates via a newsletter.
- B. it's good to have the ability to pause a contract in order to manage the money at risk.
- C. Ethereum doesn't upgrade the platform. It's fixed and final.

Correct Answer: B

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## QUESTION 3

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

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## QUESTION 4

Address.send():

- A. will cascade exceptions and address.transfer() will return a false on error.
- B. will return false on error while address.transfer() will cascade transactions.

Correct Answer: B

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## QUESTION 5

Function and Variable Visibility:

A. a function that is marked as internal cannot be called by other contracts, unless the function is used by a derived contract. Private Functions cannot be called by any other outside contract and public variables are generating automatically a getter function.

B. a function that is marked as external can never be called internally. Private functions can also be called by derived contracts using inheritance. Private variables are accessible also in derived contracts.

Correct Answer: A

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