

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

BTA Certified Blockchain Developer - Ethereum

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**QUESTION 1**

Importing from GitHub:

- A. works across all compilers and platforms the same way.
- B. is generally possible, but currently works only in Remix, but doesn't work in Truffle.

Correct Answer: B

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**QUESTION 2**

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 3**

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 4**

Address.send() and address.transfer() are considered:

- A. safe against reentrancy because of the small gas stipend of 2300 gas.
- B. dangerous because they send all gas along, it's better to use address.call.value()().

Correct Answer: B

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**QUESTION 5**

On a consortium network:

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- A. everybody can become a miner, everybody can send transactions and everything is public.
- B. usually only a few selected nodes can be miners. Transactions can be further limited.

Correct Answer: B

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#### QUESTION 6

When defining a new datatype:

- A. its best to use a contract with public storage variables, so it can be used like a class.
- B. it's best to use a struct, which is cheaper than deploying a new contract.
- C. it's not possible to generate new datatypes in Solidity.

Correct Answer: B

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#### QUESTION 7

What are Private Keys used for?

- A. To Protect the Public Keys by being cryptographically significant.
- B. To Sign Transactions And To Derive an Address From.
- C. To Generate An Address which can sign transactions.

Correct Answer: B

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#### QUESTION 8

A Private Network is:

- A. a side Channel to the Ethereum Main Net which costs less gas to run smart contracts.
- B. an exact clone of the Rinkeby Test-Network which can be started as virtual machine in the Azure Cloud.
- C. a Network running only in a private area, where people cannot join freely and openly.

Correct Answer: C

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#### QUESTION 9

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

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#### QUESTION 10

If you need more fine-grained functionality than solidity offers out of the box:

A. you can incorporate inline-assembly to get better controls.

B. you have to import pre-compiled assembly files which are then hard-copied into the bytecode of the compiled solidity file.

C. you can use Viper, the experimental assembly like language specifically to offer more flexibility.

Correct Answer: A

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#### QUESTION 11

The Fallback function:

A. cannot receive Ether, not even by adding the payable modifier.

B. can contain as much logic as you want, but it's better to keep it short and not exceed the gas stipend of 2300 gas.

C. can be used to avoid receiving ether.

Correct Answer: B

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#### QUESTION 12

Truffle has an integrated in-memory blockchain which makes unit-testing very easy:

A. True, but it's still good to use Ganache, or even a real private network for testing.

B. False, it's necessary to use Ganache or even a real private network for testing.

Correct Answer: A

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#### QUESTION 13

The nonce-field in a transaction is used:

A. to protect against replay attacks.

B. to have an additional checksum for transactions.

C. to sum up all ethers sent from that address.

Correct Answer: A

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**QUESTION 14**

Why is Unit-Testing so important?

- A. It helps you to find bugs, regression bugs and sometimes also helps you to understand your code from different angles.
- B. It is a great way to spend time on something that you get paid for. But ultimately it will just slow down the development process.

Correct Answer: A

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**QUESTION 15**

When you do external calls to other smart contracts:

- A. you should follow the checks-effects-interactions pattern and avoid state changes after the call.
- B. you should follow the effects-checks-interactions pattern and avoid state changes before the call.
- C. you should follow the checks-effects-interactions pattern, which is only necessary when you do calls to contracts where a direct contract call is not possible.

Correct Answer: A

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