



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

BTA Certified Blockchain Developer - Ethereum

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**QUESTION 1**

Block Difficulty:

- A. is determined by the Ethereum Committee every fortnight to reflect the average amount of transaction and it cannot be influenced by the network itself.
- B. increases when the time between mined blocks is below 10 seconds, while it decreases when the time is above 20 seconds.
- C. increases when the time between mined blocks is below 20 seconds, while it decreases when the time is above 60 seconds.

Correct Answer: B

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**QUESTION 2**

Sending one Ether is actually internally translated:

- A. to Wei, so it will send the equivalent of  $10^{18}$  Wei.
- B. to Finney, so it will send the equivalent of  $10^3$  Finney.
- C. to Szabo, so it will send the equivalent of  $10^6$  Szabo.

Correct Answer: A

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**QUESTION 3**

What's the correct scientific notation?

- A. 1 Ether =  $10^{18}$  wei,  $10^9$  Gwei,  $10^3$  Finney
- B. 1 Ether =  $10^{19}$  wei,  $10^{13}$  Gwei,  $10^3$  Finney
- C. 1 Ether =  $10^{16}$  wei,  $10^{13}$  Gwei,  $10^3$  Finney
- D. 1 Ether =  $10^{18}$  wei,  $10^6$  Gwei,  $10^6$  Finney

Correct Answer: A

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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

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 6

Loops in Solidity:

- A. are a great way to circumvent gas requirements, because a loop will only consume gas once.
- B. are dangerous when used with data structures that grow, such as arrays or mapping, because it is hard to estimate the gas requirements.
- C. should be avoided where possible, because of unknown side-effects on the gas requirements.

Correct Answer: B

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#### QUESTION 7

Using truffle-contract over Web3.js:

- A. is a must for every developer, because Web3.js changes so often.
- B. is a convenient way because Web3.js is currently still in beta and truffle-contract can handle transactions with JavaScript-promises.
- C. they are both completely different things. Truffle-Contract is a framework while Web3.js is a library.

Correct Answer: B

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#### QUESTION 8

Using selfdestruct(beneficiary) with the beneficiary being a contract without a payable fallback function:

- A. will throw an exception, because the fallback function is non-payable and thus cannot receive ether.
- B. it's impossible to secure a contract against receiving ether, because selfdestruct will always send ether to the address in the argument. This is a design decision of the Ethereum platform.



C. selfdestruct doesn't send anything to a contract, it just re-assigns the owner of the contract to a new person. Sending ether must be done outside of selfdestruct.

Correct Answer: B

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#### QUESTION 9

Unit-Testing on a local chain is important, because it helps you:

A. to run tests quickly and especially for free, compared to continuous deployment on the MainNetwork. This way you save a lot of fees, time and costs.

B. to run tests in an environment where logging is activated. On the Main-Net you have no access to transaction logs and this is ultimately the information you need to debug your contracts.

C. to avoid regression bugs with contracts that are updated constantly on the main-net. Once you update a contract on the main-net, the address stays the same, but the code changes and this can have disastrous side-effects.

Correct Answer: A

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#### QUESTION 10

Ethereum Nodes:

A. must implement the Ethereum protocol and external access can only be done via the proprietary Ethereum Libraries like Web3.js.

B. must implement the Ethereum Protocol and a JSON-RPC to talk with clients.

C. must implement Web3.js to interact with Websites.

Correct Answer: B

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#### QUESTION 11

Having a bug-bounty program early on:

A. can help to engage the community in testing your smart contracts and therefore help to find bugs early.

B. might be a burden as it is an administrative overhead mainly.

C. is completely useless. Who wants to test beta-ware software? It's better to start with the bug-bounty program after the contract is released on the main-net.

Correct Answer: A

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#### QUESTION 12

On a consortium network:



- 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 13

If we divide two integers:  $5/2$ , the result is: A. 2, because the decimal is truncated.

- B. 3, because it's always rounded.
- C. 2.5, because it's automatically converted into a float.

Correct Answer: A

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### QUESTION 14

Hashing Mining uses:

- A. Keccak256 while internally to hash values it's easy to use the Dagger-Hashimoto to create a meaningful hash.
- B. the Dagger-Hashimoto hashing while internally the EVM uses SHA256 which is an alias for Keccak256.
- C. the Dagger-Hashimoto hashing while internally the EVM uses Keccak256 which is almost similar to SHA256, but has a different padding so produces different hashes.

Correct Answer: C

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### QUESTION 15

DApps are:

- A. great, because they cut the middle man, run on a trusted platform, apply logic to the blockchain where already economic assets are running and thus allow peer to peer trade.
- B. an amazing way to create new applications. Those applications run entirely separated from other applications on the platform and allow for logical interactions. They can't access any funds to add an additional layer of trust.
- C. a new way of applying logical operations for banks and big financial institutions. This way they can reduce the staff while operating at increased security.

Correct Answer: B

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