



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

BTA Certified Blockchain Developer - Ethereum

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### QUESTION 1

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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### 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

To communicate with an Ethereum node via JavaScript:

- A. the library you use must make use of the JSON-RPC Interface of an Ethereum Node.
- B. must Implement the Ethereum Protocol to connect to other Ethereum Nodes.
- C. must use Web3.js, which is closed source to communicate to other Ethereum Nodes.

Correct Answer: A

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### QUESTION 4

It's possible to access the blockchain via an Ethereum Node:

- A. only via JavaScript because there is the proprietary Web3.js library.
- B. by any programming language, as long as it adheres to the JSON-RPC standard.

Correct Answer: B

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### QUESTION 5

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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