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### QUESTION 1

Public blockchains can alter the blockchain ledger by:

- A. Creating a hard fork of the blockchain data, tooling and/or software
- B. Achieving community consensus via a Smart Contract to update the ledger
- C. Re-hashing the blocks from the total block height down to the genesis block
- D. Blockchain ledgers are immutable and can never be altered

Correct Answer: C

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### QUESTION 2

Which of the following is the metaphor that describes a logical dilemma that plagues many computer networks?

- A. Neo Generals' problem
- B. Byzantine Generals' problem
- C. Byzantine Admirals' problem
- D. Renaissance Generals' problem

Correct Answer: B

BFT is so-named because it represents a solution to the "Byzantine generals' problem," a logical dilemma that researchers Leslie Lamport, Robert Shostak and Marshall Pease described in an academic paper published in 1982

Reference: <https://www.nasdaq.com/article/byzantine-fault-tolerance-the-key-for-blockchains-cm810058>

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### QUESTION 3

Secure Hash Algorithm (SHA-256) output is always 256 bits or 32 bytes in length regardless of the length of the input (even if input is millions of bytes). Select best answer.

- A. NSA is spying on us so what's it matters.
- B. Depends on input
- C. False
- D. True

Correct Answer: D

SHA stands for Secure Hash Algorithm. This is used to prove data integrity. The same input(s) will always produce the exact same output. This output is always 256 bits or 32 bytes in length regardless of the length of the input (even if input is millions of bytes).



Reference: <https://medium.com/all-things-ledger/bitcoins-implementation-of-blockchain-2be713f662c2>

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#### QUESTION 4

Byzantine Fault Tolerance can be achieved only through a Proof of Work.

- A. FALSE
- B. TRUE

Correct Answer: A

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#### QUESTION 5

By design, permissioned blockchains such as Hyperledger Fabric are not capable of creating or utilizing cryptocurrency.

- A. FALSE
- B. TRUE

Correct Answer: A

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