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QUESTION 1

What are two cryptocurrencies that you would expect to see mining equipment with ASICS? (Select two.)

- A. Bitcoin
- B. Ethereum
- C. Neo
- D. Litecoin
- E. Monero

Correct Answer: AD

Reference: <https://www.trymining.com/pages/asic-vs-gpu>

QUESTION 2

Some of the various consensus models employed by public blockchain networks include:

- A. Proof of Work
- B. Proof of Importance
- C. Proof of Stake
- D. All of the above

Correct Answer: D

Reference: <https://101blockchains.com/consensus-algorithms-blockchain/>

QUESTION 3

Which factor influences the gas cost to deploy a Smart Contract on the Ethereum blockchain?

- A. None. Smart Contract deployment has a fixed gas cost
- B. The types of operations written in code within the Smart Contract
- C. The current Ethereum market conditions
- D. The total size of the compiled Smart Contract measured in kilobytes

Correct Answer: D

QUESTION 4

Records on a public blockchain are deleted by?

- A. They cannot be deleted
- B. Filing a request with the Ethereum Foundation
- C. Recalling the transaction of Etherscan.io
- D. Deleting the transaction from the app that sent it

Correct Answer: A

QUESTION 5

What component on the blockchain maintains the "world state"?

- A. .acl
- B. Reputation Manager
- C. Distributed Ledger
- D. .bna

Correct Answer: C

Distributed Ledger manages the world state and the transaction log in the blockchain. The world state is defined as the state of all transactions on the Blockchain, where all nodes agree that all blocks on the Blockchain are at the same state. It implements three key attributes. It efficiently calculates the cryptographic hash of the entire dataset of each block. It efficiently transmits a minimal "delta" changes to the dataset, when a peer is out of sync and needs to "catch up". It minimizes the amount of stored data required for each peer to operate.

QUESTION 6

Your company is looking to develop a new token and raise funds for this new platform.

What is the process your company would like go thru to raise funds?

- A. Crowdfunding
- B. ICO
- C. Audit
- D. IPO

Correct Answer: B

Reference: <https://www.nasdaq.com/article/what-is-an-ico-cm830484>

QUESTION 7

Pending transactions on the Ethereum blockchain are always ordered by highest fee paid to lowest, and then written to the block in that order.

- A. FALSE
- B. TRUE

Correct Answer: A

QUESTION 8

In the Ethereum EVM there are two types of memory areas. (Select two.)

- A. Storage
- B. Database
- C. Memory
- D. Persistent E. Ephemeral

Correct Answer: AC

Reference: <https://solidity.readthedocs.io/en/latest/introduction-to-smart-contracts.html#the-ethereumvirtual-machine>

QUESTION 9

_____ is advantageous because it presents scalability and low cost transactions, but like DPoS introduces a component of centralization.

What algorithm is being referenced here?

- A. Byzantine Fault Tolerance
- B. Hashgraph
- C. Proof of Stake
- D. Proof of Work
- E. DAG

Correct Answer: A

BFT is notably implemented by Ripple (where validators are pre-selected by the Ripple foundation) and Stellar (where anyone can be a validator and trust is established by the community). BFT is advantageous because it presents scalability and low cost transactions, but like DPoS introduces a component of centralization.

Reference: <https://hackernoon.com/an-overview-of-cryptocurrency-consensus-algorithms-9d744289378f>

QUESTION 10

Bitcoin uses what proof of work consensus system?

- A. Cubehash512
- B. Scrypt-Jane
- C. Whirlpool
- D. Scrypt-n
- E. Hashcash

Correct Answer: E

Bitcoin uses the Hashcash proof of work system.

Reference: <https://en.bitcoin.it/wiki/Hashcash>

QUESTION 11

What are some advantages of Proof of Stake(POS) mining over Proof of Work(POW) mining? (Select three.)

- A. Energy efficient in regards to that it could consume for electricity as compared to PoW
- B. Faster Hashing algorithms
- C. No need for expensive compared to POW
- D. Faster validations compared to POW
- E. Better blockchain security compared to POW

Correct Answer: ACD

This eliminates the below challenges from PoW and believed to have an advantage. No need of expensive hardware (a normal laptop or computer running the respective coin's Validator client will do as long as your laptop or computer is online) Energy efficient as it won't consume high electricity as PoW does More loyal Validators As higher the stake the Validators have for a long time, more chances for the Validator to be picked up for "forging" and earn the transaction fee Faster validations

Reference: <https://medium.com/@karthik.seshu/cryptocurrency-proof-of-work-vs-proof-of-stakee1eee1420b10>

QUESTION 12

In regards to understanding the Ethereum Virtual Machine what statement is true?

- A. The EVM is extremely powerful, non-turing complete and perfect for doing computational intensive things, because of the direct access to the graphics card.
- B. The EVM is extremely powerful, turing complete and perfect for doing computational intensive things, because of the direct access to the graphics card.

- C. While the EVM is Sandboxed, it isn't as powerful as the Bitcoin network, because it's not Turing Complete
- D. The EVM can't access hardware layers or anything outside a blockchain node because it's sandboxed.

Correct Answer: D

The EVM is basically a sandboxed virtual machine running on every single node. It is Turing complete and a transaction-based state machine. The nodes reach consensus by executing all transactions. Only the miner node gets the block reward, all other nodes are just checking if the miner was "honest".

QUESTION 13

Which of the following is NOT considered a token?

- A. ICON
- B. LTC
- C. Golem
- D. EOS

Correct Answer: B

LTC is Litecoin and is a crypto. Check Ethereum tokens here: <https://etherscan.io/tokens>

QUESTION 14

Which of the following scenarios and databases is least suited to be utilized by a blockchain solution?

- A. Scenario: Law enforcement system; Dataset: Criminal Arrests, Warrants for Arrest, Conviction Date
- B. Scenario: An Email campaign service; Dataset: Recipient Email, From Email; Subject, Body
- C. Scenario: A family filter wifi router; Dataset: Websites Visited, Websites Blocked, Download History
- D. Scenario: Credit score app; Dataset: Credit Score, Hard Inquiries; Collections, Date Removed, Date Added

Correct Answer: A

QUESTION 15

Which technical feature of blockchain best promotes the notion of a blockchain being "censorship resistant"?

- A. An immutable ledger of transactions
 - B. Permissions-based transactions
 - C. Smart Contracts/transactional code that is executed "on chain"
 - D. Consensus systems through Proof of Work and Proof of Stake
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Correct Answer: A

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