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QUESTION NO: 1

What type of "bug" generally occurs when something isn't right according to business requirements?

- A. Business logic
- B. Business Requirements
- C. Integration
- D. Accessibility
- E. Security

ANSWER: A**Explanation:**

Business logic – something isn't right according to business requirements
Security – the code is vulnerable to some security exploits
Regression – some code updates caused existing features to break
Performance – the code is slow or some actions execute extra functions

QUESTION NO: 2

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

ANSWER: A**QUESTION NO: 3**

In Hyperledger Fabric, the smart contract logic is also called by two other names

_____ and _____? (Select two.)

- A. CordApps
- B. DApps

- C. Programmatic Logic
- D. Ripple
- E. Chaincode
- F. Ledger

ANSWER: C E

Explanation:

Reference: <http://hyperledger-fabric.readthedocs.io/en/release-1.1/Fabric-FAQ.html#endorsement>

QUESTION NO: 4

In common blockchain design, what is one common method to “chain” blocks of data together in order?

- A. Store the hash of the previous block within the current block
- B. Having the genesis node store an ordered, mutable array of block hashes
- C. Writing each block into a separate file on the hard disk of the node
- D. Assigning an order number to each block so they can be sorted when requested

ANSWER: A

QUESTION NO: 5

Regarding Ethereum contracts, the contracts can call (perform) two specific message calls. The message calls are either _____ or _____? (Select two.)

- A. Bitcoin nodes
- B. Send Ether to non-contract
- C. DApps
- D. Other contracts
- E. Ether Nodes

ANSWER: B D

Explanation:

Contracts can call other contracts or send Ether to non-contract accounts by the means of message calls. Message calls are similar to transactions, in that they have a source, a target, data payload, Ether, gas and return data. In fact, every transaction consists of a top-level message call which in turn can create further message calls.

QUESTION NO: 6

When writing and considering push and pull in a smart contract that involves "user" funds would it be better to _____?

- A. Withdraw funds rather than pull funds to them automatically
- B. Withdraw funds rather than push funds to them automatically
- C. Pull funds rather than push funds to them automatically
- D. Push funds rather than pull funds to them automatically

ANSWER: B**Explanation:**

Withdraw funds rather than push funds to them automatically Favor pull over push for external calls as we've seen, external calls can fail for a number of reasons, including external errors. To minimize the damage caused by such failures, it is often better to isolate each external call into its own transaction that can be initiated by the recipient of the call. This is especially relevant for payments, where it is better to let users withdraw funds rather than push funds to them automatically. (This also reduces the chance of problems with the gas limit.)

Reference: <https://github.com/ethereum/wiki/wiki/Safety#favor-pull-over-push-for-external-calls>

QUESTION NO: 7

What are two advantages of using a DPOS algo in a blockchain? (Select two.)

- A. Scalable
- B. Governance Model
- C. Efficiency
- D. Fast transactions
- E. Centralized

ANSWER: A D**Explanation:**

The advantages of DPoS are that it is scalable and provides fast transaction verification, but the disadvantage is that it is partially centralized and the governance model has not been proven effective in a large project. DPoS is employed by Steemit, EOS, and BitShares.

Reference: <https://hackernoon.com/an-overview-of-cryptocurrency-consensus-algorithms9d744289378f>

QUESTION NO: 8

Hyperledger Composer has following two main components?

- A. Composer Playground
- B. Business Network Archive

ANSWER: A B**Explanation:**

Hyperledger Composer has following main components:

1) Business Network Archive: Capturing the core data in a business network, including the business model, transaction logic, and access controls, the Business Network Archive packages these elements up and deploys them to a runtime. Business Network Archive files are stored as “.bna” files.

2) Composer Playground: This web-based tool allows developers to learn Hyperledger Composer, model out their business network (domain), test that network, and deploy that network to a live instance of a blockchain network. The playground keeps the development model in browser storage, allowing them to be easily uploaded or downloaded. The playground also allows for CRUD (create, read, update, delete) operations to be performed on asset transactions which are created and logged. Composer playground offers a repository of sample business networks that can provide a base for building your own business network

QUESTION NO: 9

How are "assets" in Hyperledger Fabric represented? (Select two.)

- A. JSON
- B. Node
- C. YAML
- D. Binary
- E. Deployment Manager

ANSWER: A D**Explanation:**

Assets in Hyperledger Fabric are represented in JSON or Binary. Assets are represented in Hyperledger Fabric as a collection of key-value pairs, with state changes recorded as transactions on a Channel ledger. Assets can be represented in binary and/or JSON form.

Reference: https://hyperledger-fabric.readthedocs.io/en/release-1.3/fabric_model.html

QUESTION NO: 10

There are two types of tokens in blockchain solutions. (Select two.)

- A. Legal
- B. Utility
- C. Equity
- D. Financial

ANSWER: B C**QUESTION NO: 11**

Geth uses what port to expose the Ethereum RPC Service?

- A. 2096
- B. 8545
- C. 4096
- D. 2545

ANSWER: B**Explanation:**

Reference: <https://datawookie.netlify.com/blog/2018/01/ethereum-running-a-node/>

QUESTION NO: 12

Which of the following is NOT a requirement of an enterprise blockchain typically?

- A. Append-only distributed system of record shared across business network
- B. Cost efficient blockchain
- C. Transactions are endorsed by relevant participants
- D. Ensuring appropriate visibility; transactions are secure, authenticated & verifiable

ANSWER: B**Explanation:**

Reference: <https://developer.ibm.com/courses/all/blockchain-essentials/>

QUESTION NO: 13

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

ANSWER: B**Explanation:**

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

QUESTION NO: 14

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

ANSWER: C**QUESTION NO: 15**

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

ANSWER: A C D

Explanation:

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>