

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

BTA Certified Blockchain Developer - Hyperledger

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### QUESTION 1

Hyperledger can best be described as which of the following?

- A. A Newer Version of Proof of Stake
- B. An IBM owned solution that is a single blockchain
- C. A newer version of Proof of Work
- D. An effort to advance cross-industry blockchain technologies

Correct Answer: D

An effort to advance cross-industry blockchain technologies. Hyperledger is an open source collaborative effort created to advance cross-industry blockchain technologies. It is a global collaboration, hosted by The Linux Foundation, including leaders in finance, banking, IoT, supply chain, manufacturing and technology.

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### QUESTION 2

Exhibit.

```
namespace org.fenago.delivery.expedited {
  asset Delivery identified by trackingId {
    o String trackingId
    o ProductType type
    o DeliveryStatus status
    o Long unitCount
    o GPSReading[] gpsReadings optional
    --> Contract contract
  }
}
```

Based on the code snippet, the unique identifier for the Delivery is:

- A. status
- B. trackingId
- C. gpsReadings
- D. contract

Correct Answer: A

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### QUESTION 3

Composer Modeling Language is an object-oriented modeling language that defines the domain model for a business network definition. Essentially this is saved as a .cto file. Which of the following is NOT a characteristics of a .cto file?

- A. It represents a set of resource definitions that includes assets, transactions, participants, and events.
- B. Values may not be assigned to any field variable.
- C. The modeling language does not support multiple inheritance.
- D. It is a single namespace in which all resource declarations are implicitly defined.
- E. When using Hyperledger Composer modeling language structure words "asset" and "participant" are reserved.

Correct Answer: B

Values can be assigned to any field variable A CTO file consists of:

A single namespace, in which all resource declarations are implicitly. The overall "model" defines the representation of assets. A set of resource definitions that includes assets, transactions, participants, and events.

Values may be assigned to any field variable.

The option to import resources from other namespaces. When using composer modeling language, the words "asset" and "participant" are reserved. Asset ownership instance is defined in a relationship field.

(symbol: o) The modeling language does not support multiple inheritance.

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#### QUESTION 4

Blockchain services consists of three major components. What are they? (Select three.)

- A. Consensus Manager
- B. Distributed Ledger
- C. Peer to Peer Protocol
- D. Reputation Manager
- E. Membership Services

Correct Answer: ABC

1.

P2P Protocol is implemented over HTTP/2 standards and uses Google RPC.. P2P components defines messages used by peer nodes, from point to point to multicast.

2.

Distributed Ledger manages the world state and the transaction log in the blockchain.

3.

Consensus Manager defines the interface between the consensus algorithm and the other Hyperledger components.

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#### QUESTION 5

In Hyperledger Fabric, there are three types of peer nodes depending upon the assigned roles. What are three types? (Choose three.)

- A. Committing Peer
- B. Endorsing Peer
- C. Peer
- D. Client peer
- E. MSP Peer
- F. Channel Peer
- G. Ordering Peer

Correct Answer: BCG

So not all peer nodes are same. There are different types of peer nodes with different roles in the network: Endorser peer Anchor peer Orderer peer Endorser peer Peers can be marked as Endorser peer (Endorsing peer). Upon receiving the "transaction invocation request" from the Client application the Endorser peer Validates the transaction. Check certificate details and roles of the requester. Executes the Chaincode (Smart Contract) and simulates the outcome of the transaction. But it does not update the ledger. At the end of the above two tasks the Endorser may approve to disapprove the transaction. As only the Endorser node executes the Chaincode (Smart Contract) so there is no necessity to install Chaincode in each and every node of the network which increases the scalability of the network. Anchor peer Anchor peer or cluster of Anchor peers is configured at the time of Channel configuration. Just to remind you, in Hyperledger Fabric you can configure secret channels among the peers and transactions among the peers of that channel are visible only to them. Anchor peer receives updates and broadcasts the updates to the other peers in the organization. Anchor peers are discoverable. So any peer marked as Anchor peer can be discovered by the Orderer peer or any other peer. Orderer peer Orderer peer is considered as the central communication channel for the Hyperledger Fabric network. Orderer peer/node is responsible for consistent Ledger state across the network. Orderer peer creates the block and delivers that to all the peers. Orderer is built on top of a message oriented architecture. There are two options are currently available to implement Orderer peer: Solo: Suitable for development. Single point failure. Solo should not be used for the production ready network. Kafka: Production ready Hyperledger Fabric network uses Kafka as the Orderer implementation. Kafka is a messaging software that has high throughput fault tolerant feature.

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