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Exam : **CBDH**

Title : BTA Certified Blockchain
Developer - Hyperledger

Vendor : Blockchain

Version : DEMO

NO.1 What certificate is granted an "allocation" of transaction certificates to each user?

- A. tcerts
- B. PKI
- C. RSA
- D. rootcert
- E. ecerts

Answer: A

Explanation

Each enrolled user is granted an allocation of transaction certificates (tCerts).

References:

NO.2 You would like to download Hyperledger Fabric.

What would be the command to start the process?

- A. git clone https://github.com/hyperledger/fabric.git
- B. ftp clone https://github.com/hyperledger/fabric.sh
- C. ftp clone https://github.com/hyperledger/fabric.git

Answer: A

Explanation

<https://github.com/hyperledger/fabric.git>

NO.3 Instances of an asset created in Hyperledger Fabric are managed in a_____.

- A. file system
- B. JSON based storage
- C. database
- D. registry

Answer: C

NO.4 When creating a network according to an organization's structure and also bootstrap a channel what are the following artifacts we would need to generate?

- A. Genesis Block, Channel Configuration and Anchor Peer Configs for each organization.
- B. Genesis Block, ledger Configuration and Anchor Peer Configs for each organization.
- C. Genesis Block, Channel Configuration and Anchor MSP Configs for each organization.
- D. Genesis Block, License File and Anchor Peer Configs for each organization.

Answer: A

Explanation

To create a network according to an organization's structure, and to bootstrap a channel, we will need to generate the following artifacts: A genesis block, containing organization-specific certificates that serve to initialize the Fabric blockchain. Channel configuration information. Anchor peer configurations for each organization. An anchor peer serves as a fulcrum within an organization, for cross-organization ledger syncing using the Fabric gossip protocol.

NO.5 Member in the context of Hyperledger DLT network refers to:

- A. Entities involved in transactions
- B. Business sponsor of DLT application

C. Legally separate / Independent entities

Answer: C

NO.6 What type of peer endorses and executes a transaction?

- A.** Peered Peer
- B.** Executing Peer
- C.** Endorsing Peer
- D.** Peer Node
- E.** Endorsement Peer

Answer: C

Explanation

An endorser executes and endorses transactions. The endorsing peers take the role of endorsing transactions before they are ordered and committed as per the policy defined in Chaincode.

NO.7 How are "assets" in Hyperledger Fabric represented? (Select two.)

- A.** Yaml
- B.** Go
- C.** Node.JS
- D.** Binary
- E.** JSON

Answer: D,E

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. Dont get confused of how Fabric is developed and how assets in chaincode are deployed References:

NO.8 The gossip data dissemination protocol performs which three functions? (Choose three.)

- A.** Manages peer discovery and channel membership
- B.** Disseminates ledger data across all peers on the channel
- C.** Manages channel membership only
- D.** Sync ledger state across all peers on any channel
- E.** Manages peer discovery only
- F.** Sync ledger state across all peers on the channel

Answer: A,B,F

Explanation

Gossip Protocol The gossip data dissemination protocol performs three functions Manages peer discovery and channel membership Disseminates ledger data across all peers on the channel Syncs ledger state across all peers on the channel.

References:

NO.9 What means "Forking" the Hyperledger Fabric Github repository? (Select two.)

- A.** Fork will fork the specific repository without all the branches.
- B.** Fork will fork the entire repository including all the branches.

- C. Moving this repository to your GitHub account and removing contents from previous repository.
- D. Creating a copy of this repository under your GitHub account.
- E. Forking is not allowed in Github.

Answer: B,D

Explanation

Forking" the repository means creating a copy of this repository under your GitHub account. Note that the fork will fork the entire repository including all the branches.

NO.10 In Hyperledger Fabric,_____always validate transactions against endorsement policies and enforce those policies.

- A. Committing peers
- B. Orderer nodes
- C. World State DB

Answer: A

NO.11 There are two popular approaches to defining assets in most blockchain solutions. (Select two.)

- A. Account model, where account balances are kept in state storage space on the ledger.
- B. Stateful UTXO model, where account balances are encoded into past transaction records.
- C. Account model, where account balances are kept in stateless storage space on the ledger.
- D. Stateless UTXO model, where account balances are encoded into current transaction records.
- E. Account model, where account balances are kept in state storage space in memory registers.
- F. Stateless UTXO model, where account balances are encoded into past transaction records.

Answer: A,F

Explanation

Users can use chaincode (for business rules) and membership service (for digital tokens) to design assets, as well as the logic that manages them. There are two popular approaches to defining assets in most blockchain solutions: the stateless UTXO model, where account balances are encoded into past transaction records; and the account model, where account balances are kept in state storage space on the ledger. Each approach carries its own benefits and drawbacks. This blockchain fabric does not advocate either one over the other. Instead, one of our first requirements was to ensure that both approaches can be easily implemented with tools available in the fabric.

NO.12 In Hyperledger Fabric Composer, what testing tools are available?

- A. Mocha
- B. Chai
- C. Both A and B
- D. Neither A nor B

Answer: C

NO.13 Exhibit.

```
enum ProductType {  
    o SameDay  
    o NextDay  
    o ThreeDay  
    o Thrift  
    o ItWillEventuallyGetThere  
}
```

In Hyperledger Fabric Composer the above code is an enumeration. Enumerations are used:

- A. As a way to prevent users from access the asset properties
- B. As the primary means of creating channels
- C. To discourage reusable code
- D. As a way to group properties with known values to make validation easier

Answer: B

NO.14 In Hyperledger Fabric each channel will manage its own _____ and _____. Select best answer.

- A. Ledgers, Logging
- B. Ledgers, Chaincode
- C. Ledgers, Chaincode and APIS
- D. Nodes, Peers, Chaincode
- E. Chaincode, SQL

Answer: B

Explanation

Chaincode may be deployed on multiple channels, each instance is isolated within its channel. Each channel maintains their own chaincode and ledger.

NO.15 Blockchain services consists of three major components.

What are they? (Select three.)

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

Answer: A,B,C

Explanation

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.