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BTA Certified Blockchain Developer - Hyperledger

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**QUESTION 1**

Level DB is the default database for Hyperledger Fabric and is particularly appropriate when ledger states comprise what type of data?

- A. Complex key-value pairs
- B. Rich Queries
- C. JSON data pairs
- D. Simple key-value pairs

Correct Answer: D

Simple key-value pairs - LevelDB is the default and is particularly appropriate when ledger states are simple key-value pairs. A LevelDB database is closely co-located with a network node ?it is embedded within the same operating system process. CouchDB is a particularly appropriate choice when ledger states are structured as JSON documents because CouchDB supports the rich queries and update of richer data types often found in business transactions. Implementation- wise, CouchDB runs in a separate operating system process, but there is still a 1:1 relation between a network node and a CouchDB instance. All of this is invisible to chaincode. [https://hyperledger-fabric.readthedocs.io/en/release-1.3/ ledger/ ledger.html](https://hyperledger-fabric.readthedocs.io/en/release-1.3/ledger/ledger.html)

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**QUESTION 2**

Blockchain solutions are comprised of four building blocks. Which of the following answers list the building blocks?

- A. Shared ledger, Privacy, Trust, and Smart Contracts or (Chaincode)
- B. Shared ledger, Centralization, Trustless, and Smart Contracts or (Chaincode)
- C. Shared ledger, Privacy, Trustless, and Smart Contracts or (Chaincode)
- D. Shared ledger, Centralization, Trust, and Smart Contacts or (Chaincode)

Correct Answer: A

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**QUESTION 3**

You are starting to understand the needed package dependencies for chaincode. What are the two required packages? (Select two.)

- A. Init
- B. Peer Protobuf
- C. Shim
- D. Start

Correct Answer: BC

**QUESTION 4**

The Hyperledger Project has a modular umbrella schema to its organization which includes three parts of the organizational schem As part of the organizational schema, it includes an "Infrastructure" Module that is structured with four layers.

What layer below is NOT part of the structure?

- A. Architecture
- B. Organizational
- C. Legal
- D. Technical

Correct Answer: A

The Infrastructure Module includes the following four modules: Technical, Legal, Marketing, and Organizational.

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**QUESTION 5**

Exhibit.

```
composer identity issue -c admin@network -f ernesto.card -u ernesto -a  
"resource:net.biz.digitalNotaryNetwork.Person#lee@bta.com"
```

- A. This command issues a card for the admin user
- B. This command issues a revocation for the user Ernesto
- C. This command issues a card for the user Ernesto and exports the card file to the current directory
- D. This command does none of the above

Correct Answer: C

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**QUESTION 6**

Consensus algorithms are used because \_\_\_\_\_ A. They can include specific rules or conditions to be met

- B. They increase the network security from hacking
- C. They prevent blockchain node failure
- D. They increase network speed



Correct Answer: A

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### QUESTION 7

In Hyperledger Composer resources are declared which three ways? (Choose three.)

- A. Assets, orderers, transactions, and events
- B. Concepts
- C. Assets, participants, transactions, end events
- D. Collections
- E. Non Enumerated types
- F. Enumerated types

Correct Answer: BCF

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### QUESTION 8

Which of the following is the best answer when reviewing a "Code Invoking Transaction" in Hyperledger Fabric?

- A. Code invoking transaction is an SOAP API call to a chaincode function and is similar to how a URL pattern invokes a servlet in J2EE.
- B. Code invoking transaction is an REST API call to a chaincode function and is similar to how a URL pattern invokes a servlet in Node.js
- C. Code invoking transaction is an API call to a chaincode function and is similar to how a URL pattern invokes a servlet in Node.js
- D. Code invoking transaction is an REST API call to a chaincode function and is similar to how a URL pattern invokes a servlet in J2EE.
- E. Code invoking transaction is an API call to a chaincode function and is similar to how a URL pattern invokes a servlet in HTTPS
- F. Code invoking transaction is an RPC API call to a chaincode function and is similar to how a URL pattern invokes a servlet in HTTPS.

Correct Answer: B

Code invoking transaction is an REST API call to a chaincode function and is similar to how a URL pattern invokes a servlet in J2EE. ServletServlet can be used to create a default mappings for servlets. For example, to create a default mapping to map all servlets to /myservlet/\*, so the servlets can be called using `http://host:port/web-app-name/myservlet/com/foo/FooServlet`, add the following to your web.xml file. (The web.xml file is located in the WEB-INF directory of your Web application.) ServletServlet weblogic.servlet.ServletServlet ServletServlet /myservlet/\*

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### QUESTION 9



Hyperledger is an open source project that came out of the \_\_\_\_\_. It was created in order to help advance \_\_\_\_\_ blockchain technologies. It's a global open source collaboration involving leaders from numerous industries.

- A. Linux Foundation, Cross Industry
- B. Defense Industry, Military Communications
- C. Linux Foundation, Military Communications
- D. Defense Industry, Financial Oriented
- E. Linux Foundation, Financial Oriented

Correct Answer: A

Hyperledger is an open source project that came out of the LF and was created in order to help advance cross-industry blockchain technologies. It's a global open source collaboration involving leaders from numerous industries.

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#### **QUESTION 10**

When creating Chaincode for your application what are two tasks you need to perform before running chaincode?

- A. Make sure that a directory is created for your chaincode application as a child
- B. Fork the hyperledger Github.
- C. JS programming language installed and correctly configured.
- D. Go programming language installed and correctly configured.
- E. Create a directory on every peer node.

Correct Answer: AD

Getting started- Writing chaincode you will want to make sure that you have the Go programming language installed and correctly configured. Make sure that a directory is created for your chaincode application as a child

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#### **QUESTION 11**

Hyperledger Fabric Consensus is planned out into 3 phases. Which one is NOT a phase?

- A. Ordering
- B. Endorsement
- C. Voting
- D. Validation

Correct Answer: C

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**QUESTION 12**

Which tool would you select to that would allow users to measure performance of a specific implementation with predefined use cases?

- A. Hyperledger Caliper
- B. Hyperledger Explorer
- C. Hyperledger Cello
- D. Hyperledger Quilt

Correct Answer: A

Caliper, a blockchain benchmark tool that allows users to measure performance of a specific implementation with predefined use cases, is in incubation status and was contributed by developers from numerous organizations.

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**QUESTION 13**

What is the initial setup of a network which policies, system chaincodes, and cryptographic materials (certs) are disseminated amongst participants are defined to establish trust?

- A. Chaining
- B. Instantiation
- C. Bootstrapping
- D. Subnetting

Correct Answer: C

The application is bootstrapped knowing about a group of peers which are trusted by the application developer/administrator to provide authentic responses to discovery queries. There is the bootstrap of a peer network, during which policies, system chaincodes, and cryptographic materials (certs) are disseminated amongst participants, and the bootstrap of an ordering network. The bootstrap of the ordering network must precede the bootstrap of the peer network, as a peer network is contingent upon the presence of an ordering service. A network need only be "bootstrapped" once.

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**QUESTION 14**

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. Sync ledger state across all peers on the channel



F. Manages peer discovery only

Correct Answer: ABE

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.

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#### QUESTION 15

Hyperledger is a membership based distributed ledger platform. What determine the level of permissions required to transact for members?

- A. Authentication Services
- B. Validator Services
- C. Identity Management
- D. Audit Services

Correct Answer: B

Hyperledger is a private validator network protocol. All the entities in a network must register with membership services to obtain an identity with access and transaction authority on the network. Validators determine the level of permissions required to transact. The network setup also defines the network as permissive, allowing the ease of access. It supports for rapid and high adoption for a more controlled and restrictive environment.

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