Certified Blockchain Developer - Hyperledger

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

Answer(s): D

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2. 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, License File 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 Peer Configs for each organization.

D. Genesis Block, Channel Configuration and Anchor MSP Configs for each organization.

Answer(s): C

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3. Which Hyperledger tool would you select to invoke, deploy or query blocks, transactions and associated data, network information (name, status, list of nodes), chain codes and transaction families, as well as other relevant information stored in the ledger?

A. Hyperledger Quilt

B. Hyperledger Cello

C. Hyperledger Caliper

D. Hyperledger Explorer

Answer(s): D

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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

Answer(s): A B C

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5. 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

Answer(s): A B E

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6. The Hyperledger Fabric framework is implemented on what programming environment?

A. C++

B. Node.js

C. Go

D. PHP

E. Javascript

F. Python

Answer(s): C

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7. You would like to download Hyperledger Fabric.
What would be the command to start the process?

A. ftp clone https://github.com/hyperledger/fabric.sh

B. git clone https://github.com/hyperledger/fabric.git

C. ftp clone https://github.com/hyperledger/fabric.git

Answer(s): B

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8. What Hyperledger sponsored tool is a new open-source application development framework, which simplifies the creation of Hyperledger Fabric blockchain applications, thus reducing the time and
complexity of development.
The tool aims at helping users to create blockchain applications based on Hyperledger Fabric without needing to know the low-level (Go Programming) details involved in blockchain networks?

A. Hyperledger Quilt

B. Hyperledger Composer

C. Hyperledger Explorer

D. Hyperledger Cello

Answer(s): B

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9. The CA (Certificate Authority) in Hyperledger Fabric issues the certificates. These certificates are used for identity validation and for transmission of encrypted data that only the owner (person, organization or software) of a specific certificate is able to decrypt and read.
What types of certificates are issued by the CA?

A. tcert

B. ecert

C. rootcert

Answer(s): A B C

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10. Hyperledger Composer has the following two main components.

A. Composer Framework and a Business Network Archive

B. Composer Playground and a Business Network Configuration

C. Composer Playground and a Business Network Archive

D. Distributed Ledger and a Business Network Archive

E. Distributed Ledger and Composer playground

Answer(s): C

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11. What type of organization can be thought of as a corporation run without any human involvement under the control of an incorruptible set of business rules?

A. Limited Liability Corporation

B. Decentralized Autonomous Organization (DAO)

C. Corporation

D. Trust

Answer(s): B

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12. Chaincode in Hyperledger Fabric is a decentralized transactional program which is running on the validating nodes. Chaincode implements the Chaincode interface in particular, Init and Invoke functions.
Which two statements about Chaincode is correct? (Select two.)

☐ A. Init is called during instantiate transaction after the chaincode container has been established for the first time, allowing the chaincode to initialize its internal data

☐ B. Invoke is called to update or query the ledger after a proposal transaction. Update state variables are committed to the ledger before the transaction is committed

C. Init is called during Instantiate transaction after the chaincode ledger has been established for the first time, allowing the chaincode to initialize its internal data

D. Invoke is called to update or query the ledger in a proposal transaction. Updated state variables are not committed to the ledger until the transaction is committed.

Answer(s): A D

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13. 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)

Answer(s): A

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14. An_____ is defined as a communication node that is responsible for the distribution of blockchain transactions in Hyperledger Fabric.

A. MSP

B. Peer Node

C. Client Node

D. Endorsing Node

E. Orderer

Answer(s): E

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15. The ledger system in Hyperledger Fabric uses what database by default?

A. CouchDB

B. LevelDB

C. MySQL

D. MS SQL

E. PostGres SQL

Answer(s): B

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16. Which of the following is a role in Fabric that has permission to create transactions and query network data?

A. Chain Transactor

B. Chain Administrator

C. Chain Auditor

D. Chain Member

Answer(s): A

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17. 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

Answer(s): A

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18. A transaction in Hyperledger Fabric is a request to the blockchain to execute a function on the ledger.
By what the function is implemented?

A. Chaincode

B. Service Account

C. SDK

D. API

Answer(s): A

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19. When your developing with Fabric Composer which of the following is true?

A. Decrease the time of development

B. Simplifies the development of applications

C. Simplifies the code integration of applications

D. Increases the time of development

Answer(s): A

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20. Chaincode Services uses Docker to host (deploy) the chaincode without relying on any virtual machine or computer language.
What would be the main reason or best reason that Hyperledger chose containers over virtual machines?

A. Docker provides a secured, lightweight method to sandbox chaincode execution that is "locked down".

B. Docker provides a secured, lightweight method to sandbox chaincode execution that is "locked down" but additional programming languages cannot be enabled

C. Docker provides a secured, lightweight method to sandbox chaincode execution that is not "locked down"

D. Docker is fully compatible with Hyperledger and Linux with an upgrade subscription.

Answer(s): A