

Blockchain and Its Applications

Assignment 12

Correct choices are highlighted in **Yellow**. Give partial marks for partially correct answers.

1. What of the following Indy transaction inserts a DID record in the Indy ledger
 - a. INSERT
 - b. INSERTDID
 - c. **NYM**
 - d. CREATE
2. Ubin project is based on Blockchain and Distributed Ledger Technology (DLT) for clearing and settlement of payments and securities
 - a. **True**
 - b. False
3. Does the information transferred to consumer: Consortium information such as catalog, pricing, etc.
 - a. **Not sensitive**
 - b. Sensitive
4. How does an application program interact with the Fabric network?
 - a. Application program runs chaincodes which commit data to the ledger.
 - b. Application program connects to the Orderer(s) to interact with the Fabric network.
 - c. **Application program uses the Fabric SDK to connect to a Fabric Peer which in turn connects to the Fabric network.**
 - d. Application program directly connects to a particular Fabric Channel in the network.
5. What is the correct order of phases in Project Ubin?
 - i. Cross-border Payment versus Payment (PvP)
 - ii. Tokenized SGD
 - iii. Delivery versus Payment (DvP)
 - iv. Re-imagining RTGS
 - v. Enabling Broad Ecosystem Collaboration
 - a. i, ii, iii, iv, v
 - b. **ii, iv, iii, i, v**
 - c. ii, iii, v, vi, i
 - d. i, iii, v, ii, iv
6. In which of the attacks, end-user consumers can create multiple accounts/identities for accessing the consortium services?
 - a. Byzantine faults
 - b. **Sybil attacks**
 - c. Impersonation attacks
 - d. Sensitive information Leakage
7. When does Algorand reach a tentative consensus?
 - a. During strong synchrony only
 - b. During weak synchrony under partial network connectivity only
 - c. **During both strong synchrony and weak synchrony**
 - d. During weak synchrony under full network connectivity only

8. Quorum supports transactions with
 - a. Only private state
 - b. Only public state
 - c. Both private and public state at the same time
 - d. Either private or public state for a transaction
9. Which of the following is true about the selection of the random committee in the Algorand network?
 - a. There is a dedicated node which chooses the nodes to form the committee
 - b. A distributed algorithm decides the list of nodes participating in the committee
 - c. The nodes elect themselves as a committee member by winning a local computation
 - d. A specific pool of node choose are given the responsibility of forming the committee
10. What is the primary function of a channel in a Hyperledger Fabric network?
 - a. To validate and order transactions on the blockchain
 - b. To restrict access to specific participants in the network
 - c. To store the complete history of all transactions
 - d. To deploy and execute smart contracts