**Question Bank**

Unit 4

1. What is smart contract? How it will be differentiated from centralized crowdfunding platform?
2. Why to trust smart contract?
3. How smart contract can be considered as logically behaved algorithm?
4. What is the logic behind the one size fits all smart contract?
5. List and explain the goals of smart contract.
6. What are the types of smart contract? explain briefly with example.
7. What are steps involved in create and deploy the smart contract?
8. What are the advantageous of smart contract?
9. List and explain the Ethereum blockchain components.
10. How smart contract can automatize the transaction execution?
11. What is token?
12. What are the different ways of generating tokens?
13. What is the need of second-generation tokens?
14. What is DApp?
15. Differentiate the traditional Applications and DApps.
16. Illustrate the DApp structure with various components.
17. What are the key features of DApp?
18. How DApp fit in the real world? Explain with example.
19. Define DAO.
20. How DAO works?
21. Differentiate between the DAO and Traditional Organizations.
22. List the advantageous and disadvantageous of DAO.
23. With the help of neat diagram, explain the Hyperledger fabric v1 architecture.
24. Explain the components of Hyperledger fabric.
25. Explain the basic transaction flow of Hyperledger fabric with different nodes.
26. Explain the Hyperledger transaction execution with each step in detail.
27. Explain Hyperledger fabric core components with functionalities of each.
28. Describe the registration and enrolment of a new user to the Hyperledger fabric network.
29. What is endorsement policy? Explain with an example.
30. Differentiate between the Ethereum and Hyperledger.

Unit 5

1. List and explain the attack surfaces on the blockchain.
2. How DDoS can be exploited? Explain with example.
3. Discuss any five attacks that can exploit vulnerabilities on blockchain network.
4. What is sybil attack? Explain
5. Explain the categories of long range attacks.
6. List and explain few attack examples on user wallets.
7. How cybercrime effect on blockchain network?
8. Discuss any five attacks that can exploit smart contract vulnerabilities.
9. Analyze the effect of attacks on user wallets.
10. What are the attack vectors available on smart contract?
11. What are the attack vectors on the smart contract? List any four vulnerabilities on smart contract virtual machine.
12. Define CIA triad.
13. How to achieve confidentiality, integrity, and availability with blockchain solution?
14. List any three challenges with current DNS and explain any 2 blockchain frameworks which provides solution for these challenges.
15. How to achieve confidentiality with Hyperledger fabric?
16. List and explain the DNS components.
17. List and explain the various stages involved in cyber kill chain.
18. What are the types of DDoS attacks?
19. List and explain few attacks on network resources.
20. Explain few attacks targeting server resources.
21. Discuss few attacks targeting application resources.
22. What are the challenges with current DDoS solution?
23. How blockchain provide solution for DDoS attacks?