



Pimpri Chinchwad Education Trust's  
**Pimpri Chinchwad College of Engineering**

**Question Bank**

**Department: I.T.**

**Academic Year: 2022-2023**

**Semester: II**

**Subject: EL VI -Blockchain Technology**

**Date: 16-3-2023**

**Year**

**and Class: BEIT**

**UNIT-I**

1. What is Cryptography? What is the basic Purpose of it? Explain with example.
2. Define following terms w.r.t. security.
  - a. Confidentiality and Privacy
  - b. Authentication
  - c. Authorization
  - d. Access Control
  - e. Integrity
  - f. Non-repudiation
3. Demonstrate asymmetric key cryptography. What are pros and cons of it.
4. Compare symmetric and asymmetric key cryptography
5. Explain the working of SHA-256 algorithm
6. What is digital Signature?
7. What Is Cryptocurrency and its Types
8. Write the difference between Traditional Currencies and Cryptocurrencies
9. How Cryptography is applicable in Bitcoin Transactions
10. Differentiate between centralized and decentralized system
11. What are the Methods of decentralization
12. What are various Issues for Decentralized Systems: Security, privacy, and data storage
13. Explain the concept of centralised and decentralized system with its pros and cons

**UNIT-II**

14. Define Blockchain. What are important features of it.
15. What is bitcoin? Describe the Mechanics of Bitcoin.
16. Describe the flow of Bitcoin transaction.
17. What are Merkle trees? Explain the structure of Merkle tree
18. Draw and explain the structure of block
19. What is Genesis block? Write down importance of genesis block
20. What are different types of Block Chain? Explain each with example.
21. Explain Layered Architecture of blockchain
22. State and explain different terms related to blockchain
23. What are the limitations of blockchain technology
24. What are the interoperability and scalability issues of blockchain
25. Draw and explain Peer to Peer Network
26. Define following terms related to blockchain.
  - a. Digital Signature
  - b. Gas
  - c. Nonce
  - d. Merkle tree
  - e. PoW

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