



## Multiple Choice Questions (10)

1. What is a blockchain?

- A) A type of cryptocurrency
- B) A centralized database
- C) A distributed ledger technology
- D) A cloud storage system

**Answer: C**

2. Which of the following is NOT a feature of blockchain?

- A) Immutability
- B) Decentralization
- C) Transparency
- D) Unlimited scalability

**Answer: D**

3. What is the primary purpose of consensus mechanisms in blockchain?

- A) To encrypt data
- B) To validate transactions
- C) To store smart contracts
- D) To increase transaction speed

**Answer: B**

4. Which consensus algorithm is used by Bitcoin?

- A) Proof of Stake
- B) Proof of Work
- C) Delegated Proof of Stake
- D) Byzantine Fault Tolerance

**Answer: B Explanation**

5. What is a smart contract?

- A) A legal agreement
- B) A digital wallet
- C) A self-executing code on blockchain
- D) A mining algorithm

**Answer: C**

6. Which blockchain platform is most known for smart contracts?

- A) Bitcoin
- B) Ripple
- C) Ethereum
- D) Litecoin

**Answer: C**

7. What does “mining” refer to in blockchain?

- A) Creating new tokens
- B) Validating and recording transactions
- C) Sending cryptocurrency
- D) Encrypting data

**Answer: B**

8. Which of the following is a public blockchain?

- A) Hyperledger Fabric
- B) Corda
- C) Ethereum
- D) Quorum

**Answer: C**

9. What is a block in blockchain?

- A) A piece of encrypted data
- B) A unit of storage
- C) A container of transactions
- D) A smart contract

**Answer: C**

10. Which of the following best describes a hash function in blockchain?

- A) A way to compress data
- B) A reversible encryption method
- C) A one-way cryptographic function
- D) A data sorting algorithm

**Answer: C**

## True/False Questions (10)

11. Blockchain data can be altered after it is recorded. **Answer: False**

12. All blockchains are public and accessible to everyone. **Answer: False**

13. Cryptocurrency is the only application of blockchain. **Answer: False**

14. A blockchain network can operate without a central authority. **Answer: True**

15. Smart contracts require manual execution. **Answer: False**

16. Proof of Stake consumes less energy than Proof of Work. **Answer: True**

17. Each block in a blockchain contains a reference to the previous block. **Answer: True**

18. Blockchain can improve transparency in supply chains. **Answer: True**

19. Ethereum was the first blockchain ever created. **Answer: False Explanation:**

20. Private blockchains are more scalable than public blockchains. **Answer: True**