

UNIT-1

1. Describe the historical events and technological advancements leading to the creation of blockchain and Bitcoin.
2. What role does consensus play in blockchain networks, and why is it important?
3. How do Proof of Work and Proof of Stake differ in achieving consensus in blockchain systems?
4. What are some potential applications of blockchain technology beyond cryptocurrency?
5. Explain the concept of a "51% attack" in blockchain networks and its potential consequences.
6. What are some ethical considerations surrounding blockchain technology, particularly in terms of privacy, data ownership, and environmental impact?
7. Describe some notable use cases of blockchain technology in industries such as finance, supply chain, and healthcare.
8. How does blockchain technology intersect with emerging technologies such as Internet of Things (IoT), artificial intelligence (AI)? Discuss potential synergies and challenges in integrating these technologies with blockchain.