**DITF403 Crypto-Currency and Blockchain**

**Assignment Set – 1**

1. a. How does a cryptocurrency differ from traditional forms of currency?

b. What is Bitcoin and how does it work?

2. a. How does an ERP system handle data integration and synchronization across different departments?

b. How does blockchain technology improve data transparency and trust compared to a centralized database used in ERP systems?

3. a. Are there any specific industries or sectors that have successfully implemented blockchain and ERP together?

b. What role does consensus play in blockchain technology, and how does it differ from the decision-making process in an ERP system?

**Assignment Set – 2**

4. a. How does the CAP theorem impact the design and operation of blockchain networks?

b. How does blockchain ensure the security of transactions?

5. a. How does consensus work in a blockchain network?

b. What are the potential future developments in the blockchain technology landscape?

6. a. Explain the concept of smart contracts and their role in automating transactions in the supply chain.

b. How does blockchain technology ensure the immutability and integrity of land registry records, preventing unauthorized changes and reducing the risk of fraud?

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