

Time: 3 hours

Marks: 80

Note: (1) Question No. 1 is compulsory

(2) Attempt any three from remaining five questions

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| Q.1 A | What do you understand by Blockchain ? explain in brief. | 05 |
| B | Explain the term cryptography with example. | 05 |
| C | Explain Sybil attack in detail. | 05 |
| D | Write a brief note on Objectives of consensus mechanisms. | 05 |
| Q.2 A | Explain the features of Ethereum in detail. | 10 |
| B | Describe Hyperledger fabric with its architecture. | 10 |
| Q.3 A | Explain the role of Blockchain technology in supply chain management sector. | 10 |
| B | Describe Paxos algorithm in detail. | 10 |
| Q.4 A | Explain Merkle tree in brief. | 10 |
| B | Explain Solidity with suitable example. | 10 |
| Q.5 A | What do you understand by 51% attack how to prevent it.? | 10 |
| B | Explain Proof of Work in detail. | 10 |
| Q.6 A | Differentiate Centralized and Decentralized systems. | 10 |
| B | Explain Digital signature with its uses in Blockchain technology. | 10 |