

Time: 3 Hours

Marks: 80

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- N.B.:** (1) Question number 1 is **compulsory**.
(2) Attempt any **three** out of the remaining five.
(3) Figures to the right indicate full marks.

- Q1. A Explain the concept of Hash chain. (05)
B What is double spending? How it is overcome in Bitcoin (05)
C Explain types of Block chain (05)
D What is Sybil attack? How is it prevented in Bitcoin? (05)
- Q2. A State the difference between Bitcoin block chain and Ethereum block chain (10)
B Explain Proof of Elapsed Time with suitable example. (10)
- Q3. A What are the objectives of consensus mechanisms (10)
B What are various types of account in Ethereum? (10)
- Q4. A Explain Paxos algorithm in detail (10)
B Explain Solidity in detail. (10)
- Q5. A Explain RAFT algorithm in detail (10)
B Explain Byzantine Fault Tolerance in detail. (10)
- Q6 Write short notes on (Any Four) (20)
1 Hyper ledger Fabric
2 Smart Contracts
3 Proof of Work
4 Proof of Stake
5 Uses of Block chain.