B.E./Sem-VII/COMP+CSE/C-Scheme/NOV-2025/20-11-2025

(3 Hours) (Total Marks: 80)

N.B.: 1. Question No. 1 is compulsory.
2. Answer any three out of the remaining questions.
3. Assume suitable data if necessary.
4. Figures to the right indicate full marks.

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Q1. Attempt the following (any 4): (20)

a. Explain public and private blockchain.

b. Explain Fixed and Dynamic arrays.

c. What are test networks in Ethereum?

d. Explain key characteristics of private blockchain.

e. What are Altcoins and Tokens?

Q2. Attempt the following:

a. Explain components of a Blockchain. (10)

b. Explain PAXOS. (10)

Q3. Attempt the following:

a. Describe visibility qualifiers in Solidity with examples. (10)

b. Explain Proof of Work with an example. (10)

Q4. Attempt the following:

a. Explain Workflow of Ethereum. (10)

b. Differentiate between Hot Wallet and Cold Wallet. Explain UTXO. (10)

Q5. Attempt the following:

a. Write a program in Solidity for Multi-level Inheritance (10)

b. What are the Limitations and Challenges of blockchain. (10)

Q6. Write short notes on (any 2): (20)

a. Quorum

b. Merkle Tree

c. Byzantine Faults

d. Hyperledger Fabric

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