Attempt **any four** Marks .

b Enumerate the interoperability and scalability issues in Hyperledger fabric. 5

c. Explain Simplified Payment Verification Nodes. What is the Privacy

5

solution for SPV nodes?

d List the different advantages and disadvantages of ICO. 5 e. What is nonce in blockchain and how does it work? 5

Q2

a. What is a Blockchain fork? Differentiate between soft fork and hard fork. 10 .

b

Describe the various projects covered under Hyperledger umbrella projects. 10 .

Q3

a. Discuss the different challenges addressed by blockchain in the Energy .

sector.

10

b Differentiate between Bitcoin blockchain and Ethereum Blockchain. 10 Q4 a. Explain bitcoin mining with the help of a neat diagram. 10

b

Explain different List and explain the parts of EVM memory. 10 .

Q5 a. What is an ERC20 token? Explain the steps to create ERC20 tokens. 10

b

With the help of a suitable diagram explain the life-cycle of a smart contract .

in Ethereum.

10

Q6 Write short notes on **(any 4)** 20 a. Key features of blockchain

b

EOA and contracts address .

c. UTXO in Bitcoin

d

Stock Trading Offering .

e. Channels in Hyperledger Fabric

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