

JK LAKSHMIPAT UNIVERSITY, JAIPUR
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Theory Exam -3 (Regular), December 2021
 B. Tech in Computer Science & Engineering,
 Semester VII

Roll No.

COURSE CODE: CS1203

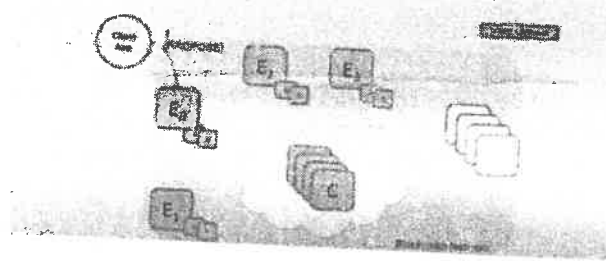
COURSE TITLE: Blockchain Technology & Applications

Time: 2 hours

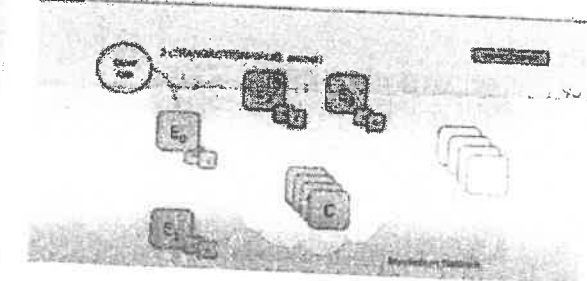
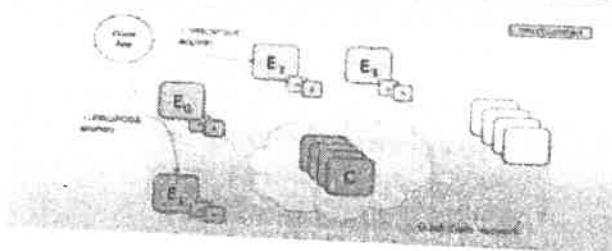
Max. Marks: 30

- Q.1 a) Suggest which type of blockchain should be used for the security of donations in a charity organization. What benefits does the blockchain technology introduce in such a scenario? Explain your answer using an example.
 b) Elaborate on the principle features of Corda and also justify how it is similar/different from blockchain.

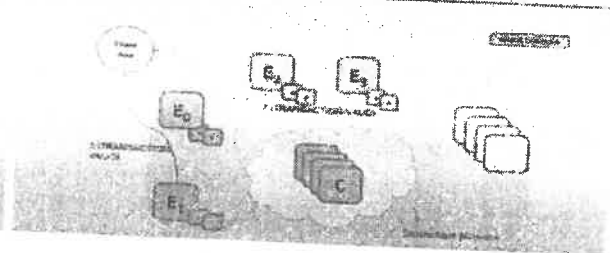
- Q.2 a) Observe the following process of Hyperledger and write the text explaining how the ledger is added into chaincode of a distributed ledger. (6+4)



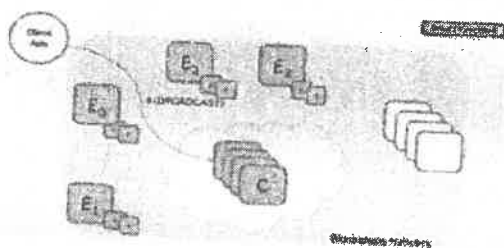
A sample transaction (3/6)



A sample transaction (4/6)



A sample transaction (5/6)



A sample transaction (6/6)



- b) Compare Hyperledger, Ethereum and Bitcoin platforms of Blockchain.

(6+4)

Q.3 a) Consider, for example, a simple wallet application client and the Blockchain decentralized infrastructure. With the help of DAPP architecture explain the process of running the wallet application.

b) Create a Smart Contract that Returns Address and Balance of Owner using Solidity

(6+4)