

COURSE NAME: FUNDAMENTALS OF BLOCKCHAIN TECHNOLOGY
COURSE CODE: ITUA40181B
(PATTERN 2018)

Marking Scheme

Question No.	Question Description	Marks
Q.1 a)	Explain smart contracts[1] and their use in blockchain[3].	[4]
b)	Demonstrate the interaction of smart contract with EVM. [6]	[6]
OR		
Q.2 a)	Organise elements of Ethereum tool stack as per their application. [4 M each]	[4]
b)	Describe various datatypes in Solidity programming with example. [2 M each]	[6]
Q.3 a)	Draw [2]and explain the FABCAR use case implementation [2]with the help of state diagram.	[4]
b)	Prepare list of different components of Hyperledger fabric with its significance. [At least 4 components with sig]	[6]
OR		
Q.4a)	What are different components of Hyperledger Fabric? All comp.	[4]
b)	Set up a fabric network with two organizations. 6 M	[6]
Q.5 a)	Justify how Blockchain is Revolutionizing the Traditional Business Network? Explain with example. All features Tr vs BK	[4]
b)	Provide an example of how blockchain can benefit consumers. security, transparency	[6]
OR		
Q.6 a)	Provide three reasons for why blockchain is an improvement to the current system of data security and data transfer. 4 M	[4]
b)	Explain how a blockchain enabled supply chain creates advantages for providing better product tracing, reducing counterfeiting, and eliminating shipping trade partners, and intermediaries. 2 M each	[6]