Total No. of Questions – [06]   Total No. of Printed Pages: 02

G.R. No.			PAPER CODE	

MAY 2022 (ENDSEM) EXAM
FINAL YEAR B. TECH. (INFORMATION TECHNOLOGY)
(SEMESTER - II)
PROFESSIONAL ELECTIVE-IV
COURSE NAME: FUNDAMENTALS OF BLOCKCHAIN TECHNOLOGY
COURSE CODE: ITUA40181B
(PATTERN 2018)

Time: [1Hr]   [Max. Marks: 30]

Instructions to candidates:
1) **Figures to the right indicate full marks.**
3) **Use suitable data wherever required**

Question No.	Question Description	Marks	CO mapped	Blooms Taxonomy Level
Q.1 a)	Explain smart contracts and their use in blockchain.	[4]	4	APPLY
b)	Demonstrate the interaction of smart contract with EVM.	[6]	4	APPLY
	OR			
Q.2 a)	Organise elements of Ethereum tool stack as per their application.	[4]	4	APPLY
b)	Describe various datatypes in Solidity programming with example.	[6]	4	UNDERSTAND
Q.3 a)	Draw and explain the FABCAR use case implementation with the help of state diagram.	[4]	5	CREATE
b)	Prepare list of different components of Hyperledger fabric with is significance.	[6]	5	APPLY
	OR			
Q.4a)	What are different components of Hyperledger Fabric?	[4]	5	APPLY
b)	Set up a fabric network with two organizations.	[6]	5	APPLY

Q.5 a)	Justify how Blockchain is Revolutionizing the Traditional Business Network? Explain with example.	[4]	6	APPLY
b)	Provide an example of how blockchain can benefit consumers.	[6]	6	APPLY
	OR			
Q.6 a)	Provide three reasons for why blockchain is an improvement to the current system of data security and data transfer.	[4]	6	ANALYSE
b)	Explain how a blockchain enabled supply chain creates advantages for providing better product tracing, reducing counterfeiting, and eliminating shipping trade partners, and intermediaries.	[6]	6	APPLY