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PAPER CODE	U483-251B(PE)
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**May 2023 (ENDSEM) EXAM****B. TECH. (IT) (AY 2022-23 SEMESTER - II)****COURSE NAME: FUNDAMENTALS OF BLOCKCHAIN TECHNOLOGY****COURSE CODE: ITUA40181B****(PATTERN 2018)**

Time: [1Hr]

[Max. Marks: 30]

**(\*) Instructions to candidates:**

- 1) Use of scientific calculator is allowed
- 2) Use suitable data where ever required
- 3) All questions are compulsory

Question No.	Question Description	Max. Marks	CO mapped	BT Level
Q.1	a) Figure out about the biggest trends in Web3 and how MetaMask fits into that?	[4]	[4]	[2]
	b) Demonstrate the steps involved in interaction of client application with Ethereum smart contract.	[6]	[4]	[3]
	<b>OR</b>			
	c) Architect and design an Ethereum blockchain solution for Know Your Customer (KYC) process.	[6]	[4]	[3]
Q.2	a) Differentiate between endorsing peer and committing peer.	[4]	[5]	[4]
	b) Identify and implement provenance tracking use case using Hyperledger fabric.	[6]	[5]	[3]
	<b>OR</b>			
	c) Setup a multi node Fabric network with two organizations on each node and having two peers per node.	[6]	[5]	[4]
Q.3	a) Recognize traceability in supply chain blockchain?	[4]	[6]	[2]
	b) By integrating Blockchain and IOT, propose a solution for healthcare industry record management.	[6]	[6]	[3]
	<b>OR</b>			
	c) Blockchain has myriad uses in cybercrime investigation. Interpret those with suitable justification.	[6]	[6]	[3]