

Total No. of Questions – [06]

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G.R. No.	
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DECEMBER 2021 - ENDSEM EXAM
FINAL YEAR B. TECH. (INFORMATION TECHNOLOGY)
(SEMESTER - I)
PROFESSIONAL ELECTIVE-IV
COURSE NAME: FUNDAMENTALS OF BLOCKCHAIN TECHNOLOGY
COURSE CODE: ITUA40181B
(PATTERN 2018)

Time: [1 Hour]

[Max. Marks: 30]

Instructions to candidates:

- 1) Answer Q.1 OR Q.2, Q.3 OR Q.4, Q.5 OR Q.6.
- 2) Figures to the right indicate full marks.
- 3) Use suitable data wherever required

Q.1 a List down different tools within Ethereum Ecosystem along with their purpose and use. [4]

Q.1 b Make use of MyEtherwallet example to explain the Ethereum Account concept. [6]

OR

Q.2 a Explain following datatypes in Solidity programming with example. i)Enum ii) Mapping [4]

Q.2 b Organise elements of Ethereum tool stack as per their application. [6]

Q.3 a Identify distinguishing features of Hyperledger fabric over traditional blockchain. [4]

Q.3 b Prepare list of different components of Hyperledger fabric with its significance. [6]

OR

Q.4 a Develop a simple HelloWorld chaincode program using GO language. [4]

Q.4 b Set up a fabric network with three organizations. [6]

Q.5 a Predict improvements in finance domain use cases by utilization of blockchain technology. [4]

Q.5 b Design a blockchain based solution to implement supply chain traceability of grapes. [6]

OR

Q.6 a Justify how blockchain based application in Real estate are more secure. [4]

Q.6 b Apply IOT, AI and blockchain to build a robust solution such as autonomous driving car. [6]