Reg No: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

FIRST SEMESTER M.TECH DEGREE EXAMINATION, MARCH 2023

Course Code: 222ECS006

Course Name: BLOCKCHAIN TECHNOLOGY AND IOT

Max. Marks : 60   **Duration: 2Hrs 30 Minutes**

PART A

Answer All Questions. Each Question Carries 5 Marks

1.	What re the various properties that a Cryptographic Hash function should preserve	(5)
2.	Give an example for smart contract	(5)
3.	Illustrate the role of actuators in IoT?	(5)
4.	Describe the main Use Cases of Solidity?	(5)
5.	Why is block chain described as the technology that adds a layer of trust to the internet?	(5)

Part B

(Answer any five questions. Each question carries 7 marks)

6.	Construct the Design of Smart home with Raspberry Pi and other hardware devices with a neat sketch.	(7)
7.	Elaborate on the structure of a contract in block chain	(7)
8.	How block chain is revolutionizing the traditional Business Network	(7)
9.	Discuss about various connectivity problems in sensor communication	(7)
10.	Explain the significance of DApps in block chain technology	(7)
11.	Discuss how Edge computing is used in IOT.	(7)
12.	Explain various cryptographic algorithms used in Block chain	(7)

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