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Examination Even Semester Examination
2023

Paper Name: Introduction to IoT
Time: 3 Hours

Paper Code: BTCSE MOOCS 2
Maximum Marks: 75

Follow proper numbering for answering the questions.

Section-A

All questions are compulsory in this Section

Q.		Marks	CO	BL
1.	What is NFC? Write the difference between NFC and other wireless technologies?	5	1	L1
2.	Explain Arduino. What are the things need to be considered for developing on the Arduino?	5	2	L6
3.	Explain various emerging IoT applications.	5	3	L2
4.	Illustrate ITU-IoT Reference model in detail with a neat diagram?	5	1	L4
5.	Explain the role of UDP and MAC Address in IOT	5	3	L2
6.	Cite the various M2M/IoT device types and explain their characteristics and the deployment scenarios.	5	4	L3
7.	How IoT can help Developing a 'Smart City' Explain? (Case Study)	5	5	L5

Section-B

Attempt any FOUR Questions from this Section

1.	Discuss the design objectives of IoT architecture needed to target a horizontal system of real-world services.	10	1	L1
2.	Explain the Architecture and Basic Pin Diagram of Raspberry-Pi?	10	2	L4,L5
3.	Explain how cloud of things acts as an enabler for new value-added services and applications with a neat diagram.	10	3	L3
4.	Define sensors and list the various specifications that need to be carefully studied before using a Thermocouple for reading the temperature of a furnace.	10	3	L1,L2
5.	Describe how Software-Defined Networking (SDN) can improve IoT device connectivity and administration in a network.	10	4	L3,L4,L6
6.	Take case study to explain the deployment and operational view, resources, services, virtual entities, users in an IoT system by considering a Personal Healthcare example.	10	5	L3,L4

BL- Bloom's Taxonomy Levels (1-Remembereing, 2-Understanding, 3-Applying, 4-Analysing, 5- Evaluating, 6- Creating), CO- Course Outcomes