

PRN No.	
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PAPER CODE	V313-292 (RE)
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December 2023 (REEXAM)

TY B.TECH (SEMESTER - I)

Branch: E&TC

COURSE NAME:
Internet of ThingsCOURSE CODE:
ETUA31202

(PATTERN 2020)

Time: [2 Hrs]

[Max. Marks: 60]

(*) Instructions to candidates:

- 1) Figures to the right indicate full marks.
- 2) Use of scientific calculator is allowed
- 3) Use suitable data wherever required
- 4) All questions are compulsory. Solve any two sub questions each from each Question 1, 2, 3, 4, 5, and 6 respectively

NOTE BT levels 1. Remember, 2: Understand, 3: Apply, 4: Analyze, 5: Create

Q. No.	Question Description	Max. Marks	CO mapped	BT Level
Q.1	a) Elaborate IoT Communication Model	[5]	CO1	Understand
	b) Describe any two levels of IoT framework with diagrams	[5]	CO1	Understand
		[5]	CO1	Understand
	c) Discuss Characteristics of IoT			
Q2	a) Differentiate Hydraulic and Pneumatic actuators	[5]	CO2	Analyze
	b) Selection parameters based on Application requirements in modern WSNs	[5]	CO2	Apply
		[5]	CO2	
	c) Explain types of wireless sensors with suitable application			Apply
Q3.	a) Describe HART protocols	[5]	CO3	Understand
	b) Differentiate NFC and Bluetooth Technology	[5]	CO3	Analyze
		[5]	CO3	Apply
	c) Explain BLE Protocol Stack			
Q.4	a) Compare IPv6 and IPv4	[5]	CO4	Analyze
	b) Describe Network Architecture of 6LoWPAN	[5]	CO4	Understand
		[5]	CO4	
	c) Differentiate COAP and MQTT protocols			Analyze

Q.5	a) Explain 5V's in big data	[5]	CO5	Apply
	b) Illustrate structured and Unstructured Data	[5]	CO5	Analyze
	c) Explain advantages of Hadoop Structure/Framework	[5]	CO5	
Q.6)	a) Explain in detail How IoT plays an important role in smart city	[5]	CO6	Apply
	b) Describe in detail How IoT plays an important role in smart home automation appliances.	[5]	CO6	Understand
	c) Discuss Vital role of IoT in health care Applications.	[5]	CO6	Understand