PRN No.	

PAPER CODE	V3)3-235-C-

DECEMBER 2023 (ENDSEM) EXAM
TY (SEMESTER - I)

COURSE NAME:
PROFESSIONAL ELECTIVE-I
INTERNET OF THINGS

BRANCH:
COMPUTER ENGINEERING

COURSE CODE: **CSUA31205C**

(PATTERN 2020)

Time: [1Hr. 30 Min] **[Max. Marks: 40]**

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 one sub question from Question 3 and any two sub questions each from Questions 4,5 and 6 respectively.**

Q. No.	Question Description	Max. Marks	CO mapped	BT Level
Q.1	a) Identify capabilities of Internet of things.	[2]	1	Understand
Q2	a) Discuss network layer of Zigbee architecture.	[2]	2	Understand
Q3.	a) Illustrate the use of IoT endpoints with respect to type or purpose of devices and example of devices.	[6]	3	Apply
	b) Choose fundamental elements of IoT device for office temperature monitoring system on the basis of its function.	[6]	3	Apply
Q.4	a) Organize different components and draw IoT simple Threat Model Chart Skeleton any real time scenario.	[5]	4	Analyze
	b) Relate between device level vulnerability, threat, and security control for healthcare application.	[5]	4	Analyze
	c) Differentiate key elements of IoT security with respect to security parameters.	[5]	4	Analyze
Q.5	a) Evaluate cloud middleware for home security IoT application.	[5]	5	Evaluate
	b) Defend common challenges in the wide-scale adoption of Cloud of Things with smart city application.	[5]	5	Evaluate
	c) Select and support any three steps for implementation of Cloud of Things any business IoT application towards successful platform.	[5]	5	Evaluate

Q.6)	a) Design and Implement IoT based Air Quality Monitoring System.	[5]	6	Apply
	b) Design and Implement IoT based Smart Irrigation System.	[5]	6	Apply
	c) Design and Implement IoT based Home Automation System.	[5]	6	Apply