

Register No: _____

THE KAVERY ENGINEERING COLLEGE
(An Autonomous Institution)

M.E DEGREE END SEMESTER THEORY EXAMINATIONS, NOV /DEC 2024

Third Semester

Applied Electronics

ET4251 - IoT for Smart Systems

Regulations - 2021

Duration : 3 Hrs

Maximum : 100 Marks

PART – A(ANSWER ALL QUESTIONS) (Marks 10*2=20)

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
1.	Define: IoT.	RE	1	2
2.	What are the hardware needed for IoT?	RE	1	2
3.	Define Sensing Unit.	RE	2	2
4.	Illustrate some of the IoT standards.	UN	2	2
5.	Outline some of the IoT protocols.	UN	3	2
6.	List out the signal coverage diameter of Bluetooth and Zigbee Protocol.	RE	3	2
7.	Outline the various versions of Raspberry Pi.	UN	4	2
8.	Define: Dependability.	RE	4	2
9.	List out some of the differences between industrial and domestic IoT.	RE	5	2
10.	List out the applications of IoT in Defense.	RE	5	2

PART – B (ANSWER ALL QUESTIONS) (Marks 5*13 = 65)

<i>Q.No</i>		<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
11.	a	Develop the details about Technology drivers for IOT.	AP	1	13
		Or			
	b	Build the block diagram of IoT and explain its applications.	AP	1	13
12.	a	Explain about the architecture of the IoT with neat block schematic.	UN	2	13
		Or			
	b	Explain with suitable examples about Cloud Computing for IoT.	UN	2	13
13.	a	Explain in details about the Zigbee MIPI with neat diagram.	UN	3	13
		Or			
	b	Explain about the details of Proprietary System with suitable examples.	UN	3	13
14.	a	Identify the application of IOT in the Big Data Analytics.	AP	4	13
		Or			
	b	Identify the use of Embedded Processors in IoT.	AP	4	13

15.	a	Infer in detail about the Smart City application of IoT.	AN	5	13
		Or			
	b	Examine, how Electric Vehicle Charging System utilizes the IoT properties?	AN	5	13

*PART – C (Marks 1*15 = 15)*

<i>Q.No</i>		<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
16.	a	Contrast various wireless technologies for IoT with examples.	AN	3	15
		Or			
	b	Examine in detail about how the IoT is useful for agricultural applications?	AN	5	15