Register No : _____

THE KAVERY ENGINEERING COLLEGE

(An Autonomous Institution)

UG/PG DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL-MAY 2026

Second Semester

ME Computer Science and Engineering

PCST2421-INTERNET OF THINGS

Regulations - 2024

Duration: 3 Hrs. ***Maximum: 100 Marks***

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

Q.No	Questions	BLT	CO	Marks
1.	Mention the Applications of IOT	L2	1	2
2.	Give the evolutionary phases of IoT	L2	1	2
3.	Give the characteristics of Integrated IOT sensors	L2	2	2
4.	Compare Sensors and actuators	L2	2	2
5.	Define SCADA	L1	3	2
6.	Examine the use of coAP	L1	3	2
7.	List any four cloud service providers	L1	4	2
8.	What is the role pay-as-you-go model?	L2	4	2
9.	Name the Linux version on Raspberry Pi.	L1	5	2
10.	Discuss the use and purpose of clayster libraries	L2	5	2

PART – B (ANSWER ALL QUESTIONS) (Marks 5*16 = 80)

Q.No			Questions	BLT	CO	Marks
11.	a	i	Categorize the various enabling technologies of IoT	L4	1	8
		ii	Formulate the evolutionary trend of IoT with necessary illustration.	L4	1	8
			Or			
	b		Examine the detailed analysis of smart objects and their architecture thereby elaborating the design limitations and role within IoT Networks.	L4	1	16
12.	a		Explain the implementation of IoT technology in following areas: (i) Smart Parking (ii)Smart Lightening (iii) Emergency response (iv) smart roads in smart cities	L2	2	16
			Or			
	b		Point out some examples that define IoT devices and explain in brief the basic building block and layers in IoT system with diagram	L2	2	16
13.	a		Briefly explain detail about the IoT Application protocol and their characteristics with suitable illustration	L2	3	16
			Or			

	b	i	Discuss in detail about: Optimizing IP for IoT	L2	3	8
		ii	Write short notes on 6LoWPAN to 6Lo	L2	3	8
14.	a		Determine under what circumstances should you prefer to use PaaS over IaaS? Formulate it with an example	L5	4	16
			Or			
	b		Explain the security architecture design of a cloud environment and relate how it can be made possible to include such measures in Creating a typical banking scenario.	L5	4	16
15.	a	i	Analyze in detail an exemplary device: Raspberry Pi.	L4	5	8
		ii	Explain in detail the Raspberry Pi interfaces.	L4	5	8
			Or			
	b		Analyze and explain the steps for designing IoT system with neat diagram.	L4	5	16

******