τ	ISN			210	CST702	
B. E. Degree (Autonomous) Seventh Semester End Examination (SEE), Dec-2024						
Internet of Things						
(Model Question Paper - II)						
[Time: 2 Hours] [Maximum Marks: 50]						
Instructions to students: Answer Any 5 Full Question						
Q. No.		QUESTIONS	Marks	COs	RBT	
1	A)	List the components of IoT and Illustrate the Generic block diagram of an IoT Device.	4 M	CO1	Level L1,L3	
	B)	Explain the different IoT enabling technologies.	6 M	CO1	L1,L3	
OR						
2	A)	Describe Physical design of IoT in detail	04M	CO2	L3	
	B)	Describe Communication with REST API's and its Architectural Constraints	06M	CO2	L3	
3	A)	Explain Domain Model specification for Weather Monitoring system	05M	CO ₂	L3	
	B)	Explain Domain Model specification for Home Automation for connecting 5 Appliances.	05M	CO3	L2	
	OR					
4	A)	Distinguish between IoT and M2M in detail.	04 M	CO1	L1,L3	
	B)	Explain Network Function Virtualization (NFV) and its importance in IoT infrastructure.	06 M	CO2	L3	
5	A)	Explain Domain specific IoT application for Smart Home Automation	05M	CO2	L3	
	B)	Explain Domain specific IoT application for Retail	05M	CO2	L3	
OR						
6		Explain Domain specific IoT application for Smart Cities	05M	CO3	L3	
	B)	Explain Domain specific IoT application for Industry	05M	CO3	L3	
7	A)	Compare and contrast Raspberry Pi, Arduino, and Tiva boards in terms of their suitability for IoT projects.	05 M	CO4	L4,L 5	
	B)	Discuss the challenges and considerations in selecting IoT boards and sensors for a specific application.	05 M	CO2, CO4	L3,L4	
OR						
8	A)	Describe the working principles of sensors and their role in IoT systems.	05 M	CO4	L3	
	B)	Explain the role of actuators in IoT systems and provide examples of common types.	05 M	CO4	L3	
9	A)	Discuss the role of Apache Oozie in managing Hadoop workflows for IoT data processing.	05 M	CO5	L3	
	B)	Describe Apache Spark and its advantages over Hadoop MapReduce for real-time data processing in IoT.	05 M	CO5	L3	
OR						
10	A)	Explain how Apache Storm is used for real-time data processing in IoT applications.	04 M	CO5	L3	
	B)	Explain the process of implementing batch data analysis in IoT using Hadoop MapReduce with an example.	06 M	CO5	L3	