

USN												21CST702		
B. E. Degree (Autonomous) Seventh Semester End Examination (SEE), Dec 2024														
Internet of Things														
(Model Question Paper - III)														
[Time: 2 Hours]										[Maximum Marks: 50]				
		<u>Instructions to students:</u> Answer any 5 full question												
Q. No.		QUESTIONS								Marks	COs	RBT Level		
1	A)	Give the formal definition of IoT and Describe the Logical design of IoT								05 M	CO1	L1,L 3		
	B)	Explain the characteristics of IoT and Discuss the Functional block of IoT with a neat diagram								05 M	CO1	L1,L 3		
OR														
2	A)	Explain the IoT deployment template for Smart Home Automation with suitable diagram								06 M	CO1	L1,L3		
	B)	Describe the web socket based communication API in detail with a neat diagram.								04 M	CO2	L3		
3	A)	Explain in detail M2M system Architecture with neat diagram								04 M	CO2	L3		
	B)	Describe the various stages/steps in IoT Design Methodology								06 M	CO4	L4		
OR														
4	A)	Describe how SDN can be used for various levels of IoT.								05 M	CO4	L4		
	B)	Define NFV, its applications within IoT environments, and its advantages								05 M	CO2	L2		
5	A)	Explain Domain specific IoT application for Health and Lifestyle								05 M	CO2	L3		
	B)	Explain Domain specific IoT application for Environment								05 M	CO4	L4		
OR														
6	A)	Explain Domain specific IoT application for Energy								05 M	CO2	L3		
	B)	Explain Domain specific IoT application for Logistics								05 M	CO4	L4		
7	A)	Discuss components like microcontrollers, microprocessors, sensors, actuators, and communication modules that form the foundation of IoT devices.								05 M	CO4	L4		
	B)	Explain the architecture and features of the Raspberry Pi board in IoT applications.								05 M	C04	L3		
OR														
8	A)	Describe the Arduino platform and its use in IoT projects.								05 M	C04	L2		
	B)	Explain the role of the Tiva C series microcontroller in IoT and its main characteristics.								05 M	C04	L2		
9	A)	Evaluate the challenges and considerations in choosing data analytics tools for IoT environments.								05 M	C05	L3		
	B)	Describe the components of Hadoop, including HDFS and MapReduce, and how they support large-scale data storage and processing.								05 M	C05	L3		
OR														
10	A)	Explain how Apache Storm is used for real-time data processing in IoT applications.								05 M	C05	L2		
	B)	Describe Apache Spark and its advantages over Hadoop MapReduce for real-time data processing in IoT.								05 M	C05	L2		