Model Question Paper-I/II with effect from 2022-23 (CBCS Scheme)

USN

First/Second Semester B.E. Degree Examination
Introduction to Internet of Things (IOT)

TIME: 03 Hours **Max. Marks: 100**

Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

		Module -1	*Bloom's Taxonomy Level	Marks
Q.01	a	Name the four broad categories of computer network based on reachability and explain them briefly.	L1	8
	b	Differentiate between IoT and M2M.	L1	6
	c	With a neat diagram explain the network communication between two hosts following the OSI model.	L1	6
		OR		
Q.02	a	What is IoT? Write the characteristics of IoT System.	L1	5
s	b	With a neat diagram explain the inter dependency technology for IoT Planes.	L2	10
	c	With a neat diagram explain Internet protocol suite.	L1	5
		Module-2		
Q. 03	a	With a neat diagram explain the working mechanism of actuator.	L1	6
	b	Explain the types of actuators.	L1	8
	c	Define sensor and explain the characteristics of sensor.	L2	6
		OR		
Q.04	a	List and explain the characteristics of Actuators.	L2	8
	b	Explain the major factors influence the choice of sensors in IoT-based sensing solutions.	L1	8
	c	With a neat diagram explain scalar and Multimedia sensing technics.	L1	4
		Module-3		
Q. 05	a	List and explain common data types in IoT applications	L1	5
	b	With a neat diagram explain offsite processing topology.	L1	10

	c	Write a short note on offloading considerations.	L1	5
		OR		
Q. 06	a	With a neat diagram explain onsite processing topology.	L1	5
	b	Explain IoT Device Design and Selection Considerations	L2	8
	c	Write a short note on offload location and offload decision making.	L1	7
		Module-4		
Q. 07	a	Define Virtualization. Discuss advantages of virtualization	L1	8
	b	Summarize the case study related to Smart irrigation management system.	L2	5
	c	With the help of neat diagrams explain the of cloud models.	L1	7
		OR		
Q. 08	a	With a neat diagram explain Architecture of a sensor-cloud platform	L1	8
	b	With a neat diagram explain Components of an agricultural IoT	L1	5
	c	With the help of neat diagrams describe the difference between Network computing and cloud computing	L1	7
		Module-5		
Q. 09	a	With a neat diagram explain the Architecture of vehicular IoT.	L1	7
	b	Define Machine learning and explain the advantages of ML.	L1	6
	c	With a neat diagram explain Architecture of healthcare IoT.	L1	7
		OR		
Q. 10	a	List the advantages of vehicular IoT.	L1	7
	b	With a neat diagram explain the types of Machine learning.	L1	6
	c	Write note on advantages and risk of healthcare IoT.	L1	7