

Model Question Paper- 2 with effect from 2022-23 (CBCS Scheme)

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Fourth Semester B.E. Degree Examination Industrial 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	CO's
Q.01	a	Explain the role of IoT and IIoT in Industry.	L2	6	CO1
	b	Explain various Industrial Revolutions.	L2	8	CO1
OR					
Q.02	a	Explain IIoT architecture.	L2	10	CO1
	b	Explain Industry 4.0 Revolution.	L2	10	CO1
Module-2					
Q.03	a	Define sensor. Explain the types of sensors.	L2	10	CO2
	b	Explain how the process automation and data acquisition takes place on IoT platform.	L2	10	CO2
OR					
Q.04	a	Define Actuator. Explain the types of actuators.	L2	10	CO2
	b	Explain the roles of Micro-controller and Embedded PC in IIoT.	L2	10	CO2
Module-3					
Q.05	a	Explain briefly about Augmented Reality	L2	6	CO3
	b	Write a note on Big Data Analytics.	L2	8	CO3
	c	Write a short note on small factories	L2	6	CO3
OR					
Q.06	a	Explain the concept of Virtual Reality.	L2	6	CO3
	b	Explain the concept of Advanced Data Analytics.	L2	8	CO3
	c	Write a short note on lean manufacturing system.	L2	6	CO3

Module-4					
Q.07	a	Explain Profibus Protocol with its components and features.	L2	10	CO4
	b	Explain CAN Protocol with its components and features.	L2	10	CO4
OR					
Q.08	a	Explain Field bus Protocol with its components and features.	L2	10	CO4
	b	Explain HART Protocol with its components and features.	L2	10	CO4
Module-5					
Q.09	a	Explain the application of IIoT in Healthcare with two examples.	L2	12	CO5
	b	Explain the application of IIoT in smart office with example.	L2	8	CO5
OR					
Q.10	a	Explain the application of IIoT in Oil and gas Industry with two examples.	L2	12	CO5
	b	Explain the application of IIoT in manufacturing industry.	L2	8	CO5