



CBCS SCHEME

BMT405B

Fourth Semester B.E./B.Tech. Degree Examination, June/July 2024 Industrial IOT

Time: 3 hrs.

Max. Marks: 100

- Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	Explain IIOT Architecture with a neat diagram.	10	L2	CO1
	b.	Explain the role of IOT and IIOT in industry.	10	L2	CO1
OR					
Q.2	a.	Define IIOT. Explain Industry 4.0 Revolution in detail.	10	L2	CO1
	b.	Explain various Industrial Revolutions in detail.	10	L1	CO1
Module – 2					
Q.3	a.	Define Sensor. Explain the types of Sensors in detail.	10	L2	CO2
	b.	Explain the roles of Micro-controller and Embedded PC in IIOT.	10	L1	CO2
OR					
Q.4	a.	Define Actuator. Explain the types of Actuators in detail.	10	L2	CO2
	b.	Make use of a diagram to explain the process of Data Acquisition on IOT platform.	6	L1	CO2
	c.	Explain how process Automation occurs on IOT platform.	4	L2	CO2
Module – 3					
Q.5	a.	Explain Augmented Reality in IIOT with relevant details.	10	L3	CO3
	b.	Explain Advanced Data Analytics in detail.	10	L2	CO3
OR					
Q.6	a.	Explain Big Data Analytics in detail.	10	L2	CO3
	b.	Explain Smart Factories in detail.	10	L2	CO3
Module – 4					
Q.7	a.	Explain Profibus in IIOT with its components and features.	10	L1	CO4
	b.	Explain HART protocol in IIOT with its components and features.	10	L2	CO4
OR					
Q.8	a.	Explain Field bus protocol in IIOT with its components and features.	10	L2	CO4
	b.	Explain CAN protocol in IIOT with its components and features.	10	L2	CO4
Module – 5					
Q.9	a.	Explain the application of IIOT in Healthcare Industry.	10	L2	CO5
	b.	Explain the application of IIOT in Manufacturing Industry.	10	L2	CO5
OR					
Q.10	a.	Explain the application of IIOT in Oil and Gas Industry.	10	L2	CO5
	b.	Explain the application of IIOT in Smart office.	10	L2	CO5
