



CBCS SCHEME

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BMT405B

Fourth Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 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.	List various industrial revolutions and write about them in detail.	10	L1	CO1
	b.	Explain the role of internet of things (IoT) and industrial internet of things (IIoT) in industry.	10	L2	CO1
OR					
Q.2	a.	Explain architecture of IIoT in detail.	10	L2	CO1
	b.	Define IIoT and write about industry 4.0 revolution in detail.	10	L1	CO1
Module – 2					
Q.3	a.	Define sensors and write about sensors for industrial processes in detail.	10	L1	CO2
	b.	With suitable example write about sensor categories in detail.	10	L1	CO2
OR					
Q.4	a.	Define actuators and write about actuators for industrial processes in detail.	10	L1	CO2
	b.	With suitable example, write about actuator categories in detail.	10	L1	CO2
Module – 3					
Q.5	a.	With suitable details, write about augmented reality.	10	L2	CO3
	b.	With relevant details, write about big data analytics.	10	L1	CO3
OR					
Q.6	a.	With relevant details write about advanced analytics.	10	L2	CO3
	b.	With necessary details write about smart factories.	10	L2	CO3
Module – 4					
Q.7	a.	With relevant details write about Profibus and its features.	10	L2	CO4
	b.	With necessary details, write about HART protocol in IIoT.	10	L2	CO4
OR					
Q.8	a.	With suitable details, write about field bus and its features.	10	L2	CO4
	b.	With relevant details write about CAN bus in IIoT.	10	L2	CO4
Module – 5					
Q.9	a.	Explain the application of IIoT in healthcare.	10	L2	CO5
	b.	Explain the application of IIoT in smart office.	10	L2	CO5
OR					
Q.10	a.	Explain the application of IIoT in oil and gas industry.	10	L2	CO5
	b.	Explain the four scenarios that are tested in real environment with real end users in smart office.	10	L2	CO5

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