

CBCS SCHEME

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BETCK205H/BETCKH205

**Second Semester B.E./B.Tech. Degree Supplementary Examination,
June/July 2024**

Introduction to Internet of Things (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.	Define IoT. Explain the characteristics of IoT.	05	L2	CO1
	b.	Differentiate between point to point and point to multipoint connection type.	05	L2	CO1
	c.	Explain OSI model with neat block diagram.	10	L2	CO1
OR					
Q.2	a.	With a neat diagram, explain the interdependency technology for IoT planes.	10	L2	CO1
	b.	Differentiate between IoT and M2M.	05	L1	CO1
	c.	Explain various networking components of IoT.	05	L2	CO1
Module – 2					
Q.3	a.	Outline the basic differences between transducers sensors and actuators.	05	L2	CO2
	b.	List and explain characteristics of sensor.	05	L1	CO2
	c.	List and explain the Actuators.	10	L2	CO2
OR					
Q.4	a.	Explain sensorial deviation's with respect to analog and digital sensors.	10	L2	CO2
	b.	Differentiate basic differences between sensors and actuators.	05	L1	CO2
	c.	Outline a simple actuation mechanism.	05	L1	CO2
Module – 3					
Q.5	a.	Elucidate the different data formats found in IoT network.	10	L2	CO3
	b.	How collaborative processing is different from remote processing?	10	L2	CO3
OR					
Q.6	a.	Explain IoT device design and selection considerations.	10	L2	CO3
	b.	What is process off-loading? Infer the different data off-loading method.	10	L2	CO3
Module – 4					
Q.7	a.	Define cloud computing. Describe the advantages of cloud computing.	10	L2	CO4
	b.	With a neat diagram, explain architecture of sensor cloud platform.	10	L2	CO4
OR					
Q.8	a.	Define Service Level Agreement (SLA). Explain its importance and metrics used while defining SLA.	10	L2	CO4
	b.	With a neat diagram, explain the components of an agriculture IoT.	10	L2	CO4
Module – 5					
Q.9	a.	Explain the architecture of Healthcare IoT.	10	L2	CO5
	b.	List and brief the advantages of vehicular IoT.	10	L1	CO5
OR					
Q.10	a.	List the applications of IoT in transportation.	10	L1	CO5
	b.	Define machine learning. List out the advantages of machine learning with diagram.	10	L2	CO5
