Reg. No. : | | | | | | | | | | |

Question Paper Code: 99426

B.E./B.Tech. DEGREE EXAMINATION, MAY 2022

Elective

Electronics and communication Engineering

19UEC926- Sensors for Iot

(Regulations 2019)

Duration: Three hours Maximum: 100 Marks

Answer All Questions

PART A - (10x 2 = 20 Marks)

1.	Differentiate between sensors and actuators	CO1- U
2.	How is sensor resolution different from its accuracy?	CO1- U
3.	Differentiate between LoRa and NB-IoT.	CO3- U
4.	Depending on the urgency of data processing, how are IoT data classified?	CO3- U
5.	Provide a few examples of Capacitive and Magnetic Sensing.	CO4- U
6.	Explain the use of basic sensing principles in RFID technology.	CO4- U
7.	Categorize two types of environmental sensors	CO5- U
8.	Explain On-road Sensors	CO5- U
9.	Mention few IoT devices available in Cisco Packet Tracer	CO2- U
10.	List the types of program blocks	CO2- U

PART – B (5 x 16= 80 Marks)

11.	(a)	Analyze the various approaches related to Multi homing in IoT Networks. Identify the Best approach. Justify it	CO4-Ana	(16)
		Or		
	(b)	Apply the fundamentals in Sensors to classify the various types of sensors	CO3-App	(16)
12.	(a)	Select and Identify the various processing topologies used in IoT and SIoT by applying the the various considerations in sensor networks	CO3-App	(16)

Or

	(b)	Explain the processing method that can be used in development of densely deployable sending tasks	CO3-App	(16)
13.	(a)	Explain the fundamental anatomy and classification of sensors	CO1-U	(16)
		Or		
	(b)	Explain the various sensing principles used in IoT	CO1-U	(16)
14.	(a)	Create and evaluate a useful wearable sensor system	CO5-E	(16)
		Or		
	(b)	Design a research roadmap to implement the wearable in daily life.	CO5-E	(16)
15.	(a)	Discuss the IoT devices available in Cisco Packet Tracer to create a project in packet tracer programming environment	CO2- U	(16)
		Or		
	(b)	Discuss the visual coding blocks in packet tracer environment that can be used to implement Hello world Program in packet tracer.	CO2- U	(16)