23EC614: FUNDAMENTALS OF INTERNET OF THINGS

QUESTION BANK:

UNIT-I

S.No		Questions	BT	CO
1		What are communication protocols	L1	CO1
2		Define IOT architecture	L4	CO1
3		How many levels of IOT Levels are there	L1	CO1
4		Classify Computer Networks.	L1	CO1
5		Differentiate between Computer Networks VS IOT	L1	CO1
6		Define IOT	L1	CO1
7		State the characteristics of IOT	L1	CO1
8		List out the interfaces used in IOT.	L1	CO1
9		Define Wireless Sensor Networks	L1	CO1
10		List out the features of IOT.	L1	CO1
		Part – B (Long Answer Questions)		
11	a)	What do you mean by IoT and its features	L1	CO1
	b)	Explain characteristics of IOT		
12	a)	Describe functional blocks of IoT Architecture	L1	CO1
	b)	Explain the features of Sensors and Actuators	L1	CO1
13	a)	Mention the applications of IoT	L1	CO1
	b)	Explain various link layer protocols of IoT	L1	CO1
14		With the help of a neat diagram, describe the levels of IoT with an example each	L2	CO1
15	a)	Explain about Communication Protocols	L1	CO1
	b)	Explain various types of sensors	L1	CO1

UNIT-II:

S.No		Questions	BT	CO
1		What is the role of M2M Communication in IOT	L4	CO2
2		Explain different types of M2M communication	L3	CO2
3		Explain role of Actuator interfacing in IOT	L3	CO2
4		Briefly explain the term interoperability	L1	CO2
5		Explain the importance of Programming in IoT	L1	CO2
6	a)	Differentiate between IOT and M2M	L1	CO2
	b)	Explain briefly about Interoperability in IoT	L1	CO2
7	a)	Explain architecture of ARDIUNO Board	L1	CO2
	b)	Explain integration of sensor with ARDIUNO	L2	CO2
8	a)	Explain briefly about Arduino Programming	L1	CO2
	b)	Explain about Actuator interfacing in IOT	L1	CO2
9		Explain briefly about M2M Communication in IOT	L1	CO2

UNIT-III:

S. No		Questions	BT	CO
1		Who invented Python Language	L1	CO3
2		Which kind of language Python is	L1	CO3
3		Explain role of Raspberry in IOT	L1	CO3
4		Explain role of Ardinuo in IOT	L2	CO3
5		Explain toggling in IOT	L1	CO3
6	a)	Explain features of Python Language	L1	CO3
	b)	Explain briefly about Raspberry Pi	L1	CO3
7	a)	Write program to interface LED with Raspberry Pi Board.	L1	CO3
	b)	Explain pin diagram of Raspberry Pi Board	L3	CO3
8	a)	Discuss data types in Python with examples	L1	CO3
	b)	Enumerate on Raspberry Pi interfaces	L1	CO3
9	a)	Explain briefly about the Implementation of IoT with Raspberry Pi	L1	CO3
	b)	Discuss briefly about Interfacing Raspberry Pi with basic peripherals	L3	CO3

UNIT-IV:

S.No		Questions	BT	CO
1		List the advantages of big data analytics	L1	CO4
2		Explain features of Data Handling	L1	CO4
3		Enumerate on importance of SDN.	L1	CO4
4		Explain steps involved in implementation of IOT with Raspberry Pi	L1	CO4
5		Write importance of software in IOT	L1	CO4
6		Write the difference between SDN and NFV for IOT.	L1	CO4
7	a)	What is Data Handling in IOT	L3	CO4
	b)	Explain Big Data Analytics	L1	CO4
8	a)	Write short notes on Hadoop system	L2	CO4
	b)	Discuss about Software defined Network (SDN)	L3	CO4
9	a)	List the Characteristics of Data Analytics	L1	CO4
	b)	Explain about the SDN for IoT	L1	CO4
10	a)	Write short notes on Data Handling and Analytics	L1	CO4

UNIT-V

S.No		Questions	BT	CO
1		What do you mean by Industrial IOT	L2	CO5
2		Illustrate Industry 4.0 concept	L2	CO5
3		Explain role of IOT in Health Care industry	L5	CO5
4		Explain role of IOT in Agriculture industry	L2	CO5
5		Explain how activity monitoring can be achieved in IOT	L5	CO5
6	a)	Illustrate on Cloud for IOT	L1	CO5
7	a)	Explain Sensor Cloud in details.	L1	CO5
	b)	How we can build Smart Home with IOT	L2	CO5
8	a)	Explain about Activity Monitoring	L2	CO5
	b)	How we can build Smart City with IOT	L1	CO5
9	a)	Illustrate role of IOT in Smart Grid building	L1	CO5

	b)	Explain IoT in HealthCare	L3	CO5
10	a)	Explain IoT in Agriculture	L2	CO5