B.E. Electronics & Communication / Telecommunication Engineering (Model Curriculum)
Semester - VII

OEC-1 / ET705M-1 - Open Elective-III : Internet of Things

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Notes : 1. All questions carry marks as indicated.
2. Assume suitable data wherever necessary.
3. Illustrate your answers wherever necessary with the help of neat sketches.

1.	a)	Define Internet of Things and explain its characteristics.	**8**
	b)	Describe physical and logical design of Internet of things.	**8**

OR

2.		Write short note on-	**16**

i)   Enabling technology in IoT

ii) Identification in IoT

iii) Things in IoT

3.	a)	Compare IPv4 and IPv6 on minimum 8-points.	**8**
	b)	Write short note on-	**8**

i)   SSH

ii) SMTP

OR

4.	a)	Write short note on-	**8**

i)   MAC addressing

ii) IP addressing

	b)	What is anonymous FTP?	**4**
	c)	How does UDP compute header checksum.	**4**
5.	a)	Compare WSN and IoT.	**8**
	b)	What are the different types of actuators used in IoT explain in brief.	**8**

OR

6.	a)	Compare sensor and Actuator in the context of IoT. Explain humidity sensor.	**8**
	b)	How are RF Id used with IoT devices.	**4**
	c)	Explain characteristic of sensor.	**4**
7.	a)	Describe implementation of IoT with Raspberry Pi.	**8**
	b)	Summarize integration of sensors and Actuators with Arduino.	**8**

OR

8.	a)	Define interoperability? Explain how interoperability is important in IoT.	**8**
	b)	Explain Data types, function, variable scope in IoT.	**8**
9.	a)	What is Big data? Differentiate Qualitative and Quantitative Analytics.	**8**
	b)	Write short note on-	**8**

       i)   Smart City

       ii)   Smart Home

OR

10.	Write short note on-	**16**

       i)   Fog computing

       ii)   Smart Grid

       iii)   Cloud computing

       iv)   Activity monitoring in IoT.

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