CBCS Scheme

USN							16SCS24
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Second Semester M.Tech. Degree Examination, June/July 2017

		Internet of Things									
Tin	me: 3 hrs.										
		Note: Answer FIVE full questions, choosing one full question from each mo									
		Module-1									
1	a.	What is an IOT? Describe the high level logical partitioning of the intershowing where IOT applies.	(08 Marks)								
	b.	Explain the IPV6 role in IOT.	(08 Marks)								
		OR	TH CA)								
2	a.	Explain IOT framework with respect to a high level M2M system architecture ((10 Marks)								
	b.	Write a note on the following health monitoring applications: (i) Chronic disease monitoring. (ii) Personal wellness monitoring.	(06 Marks)								
		Module-2									
3	a.	Explain the structural aspects of the IOT.	(08 Marks)								
	b.	What is RFID? Compare contactless smart cards and RFID tags.	(08 Marks)								
		OR	(00.75 1								
4	a.	Explain IPV6 routing protocol for RPL ROLL.	(08 Marks								
	b.	With neat diagram, describe 3GPP service model and the architecture.	(08 Marks								
		Module-3	(00.1/)								
5	a.	Describe the architecture of a Bluetooth system with the HDP and applications	(08 Marks								
	b.	With neat diagram, explain the overall network architecture of the evolved (EPS) network elements.	(08 Marks								
		OR									
6	a.	Draw IPV6 packet format and also explain fields in the IPV6 base header.	(06 Marks								
	b.	Write a note on IPV6 tunneling.	(06 Mark								
	c.	Explain the IPsec in IPV6.	(04 Marks								
		Module-4									
7	a.	Explain the home intrusion detection IOT system.	(08 Mark								
	b.	Describe smart parking IOT system.	(08 Mark								
		OR									
8	a.	Explain the air pollution monitoring system.	(08 Mark								
	b.	Explain an implementation of a smart irrigation system.	(08 Mark								
		Module-5									
9	a.	Explain the components of a Hadoop cluster. Describe Hadoop MapReduce	programmir								
		model and mapreduce job execution workflow.	(10 Mark								
	b.	Explain the key components of Hadoop YARN.	(06 Mark								
		OR									
10		Explain Oozie workflow for computing machine status / error code with maxin	num count.								

OR

Explain Oozie workflow for computing machine status / error code with maximum count. 10 (08 Marks) Describe Apache storm for real time data analysis. (08 Marks)