Reg. No. :					

Question Paper Code: 59415

B.E./B.Tech. DEGREE EXAMINATION, NOV 2018

Elective

Electronics and Communication Engineering 15UEC915-INTERNET OF THINGS

(Regulation 2015)

Duration: Three Hours

Maximum: 100 Marks

Answer ALL Questions

PART A - $(5 \times 1 = 5 \text{ Marks})$

1.	Services are the way in which the Internet of Things is connected to data.					
	(a) Cloud	(b) Big data	(c) Internet	(d) Netw	vork	
2.	manage	es the metadata of the In	ternet of Things services.	CO2- R		
	(a) Power	(b) Controller (c) Scheduler (d) Pack		age		
3.	Which standard bodie	s govern RFID ?			CO3- R	
	(a) ISO	(b)EPC	(c) Zig Bee	(d) ISO	& EPC	
4.	is security principle concerned with the trustworthiness, CO4- R origin, completeness, and correctness of information.					
	(a) Integrity	(b) Availability	(c) Authentication	(d) Accou	ountability	
5.	agency has responsibilities with respect to the cyber- security of Internet-connected medical devices.					
	(a) Federal Trade Commission (FTC) (c) Department of Justice (DOJ)					
	(b) Food and Drug Administration (FDA) (d) Department of Energy (DOE)					

C

		PART - B (5 x 3 = 15 Marks)				
6.	Wha	at is Internet of Things? What is the need for Internet of Things?		CO1- R		
7.	. What are the Identification codes of Object. Give examples.			CO2- R		
8.	8. Define RFID			CO3- R		
9.	9. List out any three security vulnerabilities of Internet of Things			CO4- R		
10.	10. What are the advantages of Internet of Things for businesses?			CO5- R		
		PART – C (5 x 16= 80 Marks)				
11.	(a)	Explain examples of a Applications of IOT in detail.	CO1- U	(16)		
		Or				
	(b)	Explain about high level M2M system architecture in detail	CO1- U	(16)		
12.	(a)	(i) Discuss the Traffic characteristics of IoT.	CO2- U	(8)		
		(ii) Write short note on Sensor Technology.	CO2- U	(8)		
		Or				
	(b)	Explain key supportive technologies that are needed for wide-scale deployment of IoT applications	CO2- U	(16)		
13.	(a)	(i) Explain the Architecture of Wireless Sensor Networks.	CO3- U	(8)		
		(ii) Discuss about Security Challenges of Wireless Sensor networks.	CO3- U	(8)		
		Or				
	(b)	Explain the components of RFID Systems and Issues in detail	CO3- U	(16)		
14.	(a)	What is Security tomography? Explain in detail layered attacker model.	CO4- U	(16)		
	Or					
	(b)	Explain security threats on Integrity, Availability, and Non-repudiation.	CO4- U	(16)		
15.	(a)	(i) Describe any four aspects in your business to master IoT.	CO5- U	(8)		
		(ii) Write short notes on Business Model Scenarios for the Internet of Things.Or	CO5- U	(8)		
	(b)	(i) Discuss about Applying IoT for Healthcare systems.	CO5- U	(8)		
		(ii) Discuss about Applying IoT for Home Automation.	CO5- U	(8)		