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**Internal Assessment Test II – Oct. 2019**

Sub:	IOT & WSN				Sub Code:	15EC752	Branch:	ECE/TCE		
Date:	Duration:	90 min's	Max Marks:	50	Sem / Sec:	7 A,B,C,D			OBE	
<u>Answer any FIVE FULL Questions</u>								MARKS	CO	RBT
1.	Explain IoT based data collection, storage and computing services using Nimbits.				[10]	CO2	L2			
2 (a)	Explain about wireless sensor network with neat figure. Explain the challenges for WSN.				[8]	CO3	L2			
	(b) Explain about HTTPS.				[2]	CO2	L2			
3.	What is embedded operating system. Write a note on TinyOS with architecture and nesC.				[2+8]	CO4	L2			
4.	Explain with neat figure the single node architecture with necessary hardware components				[10]	CO4	L2			
5 (a)	Write a note on Optimization goals and figure of merit.				[7]	CO4	L2			
	(b) Write a short note on network gateway and tunneling.				[3]	CO4	L2			
6.	Explain about the design principles of WSN and techniques used for In-network processing				[2+8]	CO4	L2			
7.	Explain XMPP protocol with neat figure.				[10]	CO1	L2			
8 (a)	Explain cloud computing and explain the cloud service model with neat figure.				[7]	CO2	L2			
	(b) Write a short note on the types of node mobility in WSN.				[3]	CO4	L2			

Course Instructor

Chief Course Instructor