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PES University, Bengaluru-85 (Established under Karnataka Act No. 16 of 2013)

UE15CS433

DECEMBER 2018: END SEMESTER ASSESSMENT, B.TECH, VII-SEMESTER

UE15CS433 – Internet of Things (MOOC)

Tir	me: (03 Hours Answer All Questions	Max Marks: 100				
	a)	What is a "Thing" in the context of the IoT? Support your explanation with a modern day IoT applications.					
1 b)	b)	Compare and contrast transducers and actuators with relevant examples.					
	c)	In the context of IoT, what is a network protocol? Explain, a data flow diagram.	with example, how CoAP works with	8			
2	sea hav Wh Thi	nen you want to search for some information, you enter a search engine and you get an answer very rapidly. The way that we crawled the internet to index and locate all the information nat would it take to have the equivalent of search for the phyongs? How would you have the ability to keep track and known action of time?	that happens is that Google servers on on the internet.	20			
	a)	List some of the flows/steps that a connected and self-dri follow to go from location A to location B safely.	ving vehicle like a car would have to	10			
3	b)	What do you mean by SCADA? Can you give an exam factory/process automation?	ple of impact of SCADA system in	10			
	a)	What is interoperability in context of IoT? Why is interoper	rability important in IoT?	6			
4	b)	How can you make an intelligent traffic management system using Arduino? Discuss the objective, system architecture, functionalities, hardware and software specifications.					
a) b) 5 c)	a)	Discuss the applications and challenges of IIoT.		6			
	b)	Explain any 3 quantitative analysis models using in IoT in fe	w lines.	6			
		Illustrate with suitable depiction for the following case studies in IoT:					
	c)	i) Precision agriculture	, = 1h	8			
		ii) Real-time monitoring in healthcare	*				