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

UE18CS313 UE18S313

DECEMBER 2020: END SEMESTER ASSESSMENT (ESA) B TECH VI SEMESTER **UE18CS313 – Internet Of Things**

-	Time	3 Hrs Answer All Questions Max Marks: 100)						
1	a)	List and briefly explain current challenges being addressed by connected Roadways.							
b)	b)	List the Core IoT Functional stack. Briefly explain any two core functional stack.							
	c)	Highlight and briefly explain a few of the most significant challenges and problems that IoT is currently facing.							
2	a)	List and briefly explain the Classes of Constrained Nodes as defined by RFC 7228.	6						
	b)	List the use cases for the Narrowband Power Line Communications (NB-PLC).							
	c)	What are the some advantages and disadvantages that a wireless-based solution offers?	8						
	a)	What is Adoption or Adaptation of the Internet Protocol?							
	b)	Briefly explain three 6TiSCH forwarding models.	6						
c	c)	Define the following CoAP Message fields	3						
		i. Options ii. Payload iii. Message ID iv. Code							
4 a)	a)	Explain "three Vs" to categorize big data.	6						
	b)	With a neat block diagram illustrates the OCTAVE Allegro steps and phases.	6						
-0	c)	List and explain four types of data analysis results.							
b	a)	Write a program to print a temperature sensor value on serial monitor.	6						
	b)	What is a Development Board?							
	c)	What are the steps to setup RPi.	8						