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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

٦	Γime:	3 Hrs Answer All Questions Max Marks: 100	)					
1	a)	List and briefly explain current challenges being addressed by connected Roadways.	6					
	b)							
	c)	Highlight and briefly explain a few of the most significant challenges and problems that IoT is currently facing.	8					
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).	6					
	c)	What are the some advantages and disadvantages that a wireless-based solution offers?	8					
3	a)	What is Adoption or Adaptation of the Internet Protocol?	6					
	b)	Briefly explain three 6TiSCH forwarding models.	6					
	c)	Define the following CoAP Message fields	8					
		i. Options ii. Payload iii. Message ID iv. Code						
1	a)	Explain "three Vs" to categorize big data.	6					
	b)	With a neat block diagram illustrates the OCTAVE Allegro steps and phases.	6					
	c)	List and explain four types of data analysis results.	8					
; ]	a)	Write a program to print a temperature sensor value on serial monitor.	6					
1	b)	What is a Development Board?	6					
-	c)	What are the steps to setup RPi.	8					