M.Tech. Electronics & Communication Engineering CBCS Pattern Semester-III
PECS311 / PECS31 - Wireless Sensor Networks

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Notes : 1. All questions carry marks as indicated.
2. Answer **any five** questions.
3. Assume suitable data wherever necessary.
4. Illustrate your answers wherever necessary with the help of neat sketches.

1.	a)	Discuss mechanism required for wireless sensor networks.	**7**
	b)	Differentiate between MANET and WSN'S.	**7**
2.	a)	Discuss the basics of position based routing protocol for WSN.	**7**
	b)	Discuss some of optimization goals in WSN's.	**7**
3.	a)	Describe important properties of localization and Positioning Procedures.	**7**
	b)	Describe briefly the address and name management in WSN.	**7**
4.	a)	Explain low duty cycle protocols.	**7**
	b)	Write a short note on Sensor Tasking and Control.	**7**
5.	a)	Explain the LEACH technique of clustering.	**7**
	b)	Describe the MAC protocols for WSN in detail.	**7**
6.	a)	Discuss some applications of WSN's.	**7**
	b)	Describe the types of wireless sensor networks in a brief manner.	**7**
7.	a)	Explain some of the Contention based protocols.	**7**
	b)	How does wireless sensor network work?	**7**
8.		Write short notes on **any two.**	**14**
	a)	Gateway concepts	
	b)	Topology Control	
	c)	Node level software platform	
	d)	Wake up radio concept	

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