B.E. Electronics & Telecommunication / Communication Engineering Seven Semester Elective-I: EC7052 - Wireless Sensor Network

P. Pages: 1 Time: Three Hours				Max. Marks : 80	
	Note	es: 1. All questions carry marks as indicated. 2. Due credit will be given to neatness and a 3. Assume suitable data wherever necessary 4. Illustrate your answers wherever necessary			
1.	a)	Draw & explain the architecture of smart wireless	sensor node architecture.	8	
	b)	Which component of the sensor node consumers r	nore power and why.	8	
		OR			
2.	a)	Define the following terms.		8	
	b)	i) Dynamic network. ii) Da Why multi flop data transmission is preferred in W	ta Dependency. /SM.	8	
3.	a)	Explain generic protocol stack for WSN, draw near	t diagram.	8	
	b)	Explain in brief requirements & design constraints	of WSN.	8	
		OR			
4.	a)	Describe data centric protocol for wireless sensor network.			
	b)	Explain Location based routing protocol for WSN	•	8	
5.	a)	Describe the working technology for WiFi commu	nication.	8	
	b)	Explain Zig Bee communication technology used for WSM.		8	
		OR			
6.	a)	Explain the advantages and disadvantages of Blue	tooth technology used for WSM.	8	
	b)	Describe DAM modulation technique used in com	munication.	8	
7.	a)	Describe performance metrics for MAC protocol.		8	
	b)	Describe TDMA.		8	
		OR			
8.	a)	Explain in brief ALOHA protocol.		8	
	b)	Describe MAC protocol for WSM.		8	
9.	a)	Describe middleware used in WSN.		8	
	b)	How data storage carries importance in data mana	gement of WSN.	8	
		OR			
10.	a)	Explain AMF (Adaptive Middleware Framework)	architecture.	8	
	b)	What are different data storage schemes that are us	sed in WSM.	8	
