B.E. (Electronics Engineering / Elect. & Telecommunication / Elect. & Communication Engineering) Eighth Semester (C.B.S.) Elective-II: Wireless Sensor Network

P. Pages: 2 Time: Three Hours			* 0 2 4 5 *	NRJ/KW/17/4689/4701 Max. Marks: 80	
	Note	es: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	All questions carry marks as indicated. Solve Question 1 OR Questions No. 2. Solve Question 3 OR Questions No. 4. Solve Question 5 OR Questions No. 6. Solve Question 7 OR Questions No. 8. Solve Question 9 OR Questions No. 10. Solve Question 11 OR Questions No. 12. Due credit will be given to neatness and adequate dimension Assume suitable data whenever necessary. Illustrate your answers whenever necessary with the help of		
1.	a)	Explair	n sensor taxonomy for wireless sensor network.	7	
	b)	Explair	n basic sensor network architectural elements in detail.	7	
			OR		
2.	a)	Briefly	explain following sensor network application in detail.	8	
		i) M	ilitary Aplication		
		ii) M	edical Application		
		iii) Eı	nvironmental Application		
		iv) In	dustrial Application.		
	b)	Describ	be the characteristics of wireless sensor Network.	6	
3.	a)	Explair	n Radio Technology primer in detail.	7	
	b)	Explair	the Performance requirement of MAC protocol.	6	
			OR		
4.	a)	Describ	be schedule Based MAC protocols for sensor networks.	7	
	b)	Compa	re the following wireless technologies	6	
		i) IE	EEE std. 802.11		
		ii) IE	EEE std. 802.15.1		
		iii) IE	EEE std. 802.15.4		

5.	a)	Explain data dissemination & data gathering concept in detail.					
	b)	Explain Low Energy Adaptive Clustering Hierarchy (LEACH) as routing algorithm.	7				
		OR					
6.	a)	Explain Sensor Protocol for Information via Negotiation (SPIN) routing strategies of WSW in detail.					
	b)	Explain routing challenges and design issues in WSN.					
7.	a)	Explain connection oriented transport control protocol (TCP RFC -793) in detail.					
	b)	What are the performance issues of transport control protocol.					
		OR					
8.	a)	Explain design issues of transport control protocol.					
	b)	Explain existing examples of transport control protocol:-					
		i) CODA ii) GARUDA, HIII					
9.	a)	Explain challenges in the design of Middleware for W.N.	6				
	b)	Draw and explain the middleware architecture of WSN.					
		OR					
10.	a)	Explain the existing middleware strategies:	6				
		i) MiLAN ii) AMF					
	b)	Explain middleware data related functions for WSN.	7				
11.	a)	Explain traditional network management protocol (SNMP) in detail.	7				
	b)	What are the requirements of network management.	7				
		OR					
12.	a)	What are design issues of network management protocol.	7				
	b)	Explain performance and traffic management model for WSN.	7				
