B.E. Seventh Semester (Computer Technology) (C.B.S.)

Elective - II : Wireless Sensor Networks

P. Pages: 2 Time: Three Hours			s * 0 1 2 9 *	NKT/KS/17/7486 Max. Marks: 80
	Notes	3: 1. 2. 3. 4. 5. 6. 7. 8. 9.	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 dimensions. Assume suitable data whenever necessary. Illustrate your answers whenever necessary with the help of neat so	ketches.
1.	a)	What is	WSN? Explain different types of sensor network applications.	7
	b)	Explain	the goals for real time distributed Network computing for sensor da	ta fusion. 6
2.	a)	Describ	OR e the technical challenges in WSN.	6
2.	b)		e importance of convergence of networking and real-time computing	
3.	a) b)	500	re the difference between sensor networks and traditional data networe the aspects of efficient sensor network application.	orks. 7
	(0)			a (U)s
	,	г 1'	OR	
4.	a) b)	•	in detail about model for programmability in sensor network. the importance of packing in MEMs.	6
	0)	Бирішіп	the importance of packing in MLM.	U
5.	a)	What ar	re the different routing challenges in WSNs.	4
	b)	i) Fla	the following routing protocols in WSNs. at routing laptive routing.	10
	10		OR	10
6.	a)	i) Sei	the modeling of perceptual systems in reference with nsor fusion ii) Error handling easoning.	050
	b)	Explain	the motivation and design issues in WSN routing.	8

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6	7.	5	Describe in brief about WSN.	13
	J)		i) Localization protocol.	
			ii) Time synchronization protocols.	
	•	,	OR	_
	8.	a)	Explain in detail about Application layer protocol.	9
		b)	How the Target detection and tracking is done Application specific support at Application layer protocol?	4
	9.	a)	Write a short note on transport layer protocol.	9
			i) Event to-sink transport	
E	(O)	5	ii) Sink -to- sensor transport.	
150		b)	Explain about several facts for finding reliability to achieve QoS in WSNs.	5
/			OR	
	10.		Explain in brief about. i) Network layer protocols	4
			ii) Data link layer protocols work in WSNs.	
	11.	a)	Explain the privacy protection inWSN.	7
		b)	Explain the unique security challenges in sensor Networks.	6
		2	OR	
3)	12.	(1)	Explain in detail about security architectures of WSNs	3
			i) Cell - Based WSNs	
			ii) Ad-Hoc-sensor Networks.	

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