Total	No.	of Questions : 8] SEAT No. :				
P33	50	[Total No. of P	Pages: 2			
		[5670] 619				
B.E. (E & TC)						
Wireless Sensor Network						
(2015 Pattern) (Semester - II) (404192C) (Elective - IV)						
		[Max. Moons to the candidates:	urks : 70			
		Neat diagrams must be drawn wherever necessary.				
		Figures to the right indicate full marks.				
<i>Q1)</i>	a)	Explanation operating system of WSN in terms of	[8]			
		i) Memory management.				
	(interrupts.				
		iii) Tasks, Threads & Events (Any two).				
	b)	Write note on:	[6]			
	ŕ	i) Sensor MAC.				
		ii) B-MAC.				
	c)	Compare wireless HART and ISA 100.11 a.	160			
	C)					
2.2		O' OR				
<i>Q2)</i>	a)	Explain in detail: Architecture of WSN.	[6]			
	b)	Differentiate between Backward Error Control and Forward Error				
		with suitable examples.	[8]			
	c)	Explain protocol stack of WSNs.	[6]			
<i>Q3</i>)	a)	Compare Range-Based localization & Range Free localization.	[8]			
	b)	Write a note on:	[8]			
		i) Routing Basics.				
		ii) Routing Metrics.				
		OR OR				
			<i>P.T.O.</i>			

Q4)	a)	Explain various Routing Metrics and Routing Protocols in WSN.	[8]		
	b)	What is Full Network Broadcast?	[8]		
Q5)	a)	What are different clustering techniques?	[8]		
	b)	Write a note on .	[8]		
		i) In Network Processing.			
		ii) Data Aggregation.			
		OR			
<i>Q6)</i>	a)	Explain security issues in wireless sensor networks.	[8]		
	b)	Explain Denial of service attack taking place at each layer.	[8]		
<i>Q7</i>)	a)	Explain in detail: Designing and Deploying WSN applications.	[8]		
	b)\	What are general problems for deploying WSN applications.	[10]		
(10)	`	OR)	101		
Q8)	a)	Explain: The Top-Down Design process.	[8]		
	b)	How were Early WSN Deployments.	[10]		
			3		
		G. T. T. T.			
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		A. T. C.			
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