Total No.	. of Questions : 8]	SEAT No. :	
P-7833	3	[Total	No. of Pages : 2
	[6181]-380	6	
	B.E. (Robotics & Automat	ion Engineering	g)
	WIRELESS SENSOR NET	WORK (Theor	:y)
(2019)	9 Pattern) (Semester - VII) (4	411503B) (Elect	ive - III)
	½ Hours]	[M	ax. Marks: 70
Instructi 1)	ions to the candidates: All questions are compulsory i.e. Solve	01 or 02 03 or 0	05 or 06
1)	Q7 or Q8	Q.1 or Q.2, Q.3 or Q	1.4, Q.3 or Q.0,
2)	Assume suitable data, if necessary.	160	•
3)	Figures to the right side indicate full n	narks.	
4)	Neat diagrams must be drawn whereve	er necessary.	
,	Ø	10/2	
Q1) a)	Can the MAC protocols of 802.11	& Bluetooth be us	ed for WSN?
	Justify and Explain these protocol.		[9]
b)	Explain WSN Standards-1EEE802.	15.4 in detail.	[8]
	OR		
Q2) a)	Explain in brief about Classification	s of MAC Protocol	s. [9]
b)	Explain the terms :		[8]
	Explain the terms: i) Wibree ii) BLE		
	ii) BLE		\$
	iii) Zwave		B.
	iv) ANT	20'	\$.
	11) 1111		
(31-2)	Explain Localization Challenges and	d its Properties	[8]
(23) a)		1 its 1 repetites.	
b)	Explain in detail:	d its Properties.	[8]
	i) Deployment Schemes		
	ii) Proximity Schemes		
	OR	% .	

<i>Q4</i>)	a)	What is mean by Routing? Explain static routing in detail. [9]	
	b)	Explain in detail :	
		i) Ranging Schemes	
		ii) Location-Based Routing	
		86.7	
Q5)	a)	Explain different Security Issues in Wireless Sensor Networks.	[9]
	b)	Explain different attacks on WSN.	[9]
		OR	
Q6)	a)	Explain Security Mechanisms In WSN.	[9]
	b)	Explain Different Clustering Techniques in detail.	[9]
Q 7)	a)	Write short note on General Testing and Validation process of W	
			[9]
	b) 🖔	Explain WSN Applications in detail.	[9]
		OR	
<i>Q8</i>)	a)	Write notes on i) Home automation.	[9]
	b)	Explain Top-Down Design Process Approach in detail for WSN	
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