Total No.	of Questions : 6] SEAT No. :
P1340	[Total No. of Pages : 1
	BE/Insem/APR-211
B.E. (E & TC)	
WIRELESS SENSOR NETWORK	
(2015 Pattern) (Elective - IV) (Semester - II)	
Time: 11	
1nstruction 1)	ons to the candidates:  Neat diagrams must be drawn wherever necessary.
2)	Figures to the right indicate full marks.
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<b>Q1</b> ) a)	What is Wireless Sensor Network? Explain architecture of WSN. [6]
b)	What are various types of Sensor Network? [4]
	OR
<b>Q2)</b> a)	Explain various hardware components of sensor node with the help of
1 ) .	diagram. [6]
b) \	Explain following parameters with reference to operating system of WSN.[4]
	i) Memory Management
	ii) Interrupts
<b>Q3)</b> a)	What are metrics of MAC protocol and explain algorithm for TDMA
1.	MAC.
b)	Explain properties of Wireless Link. [4]
	OR
<b>Q4)</b> a)	What are different Error Control Methods? Explain with examples. [6]
b)	Write short note on CSMA. [4]
	(a) (b)
<b>Q5)</b> a)	Draw & explain the protocol stack of WSN. [6]
b)	Explain Low rate WPAN protocol. [4]
	OR OR
<b>Q6)</b> a)	Compare BLE and ANT. What are the advantages of ANT over BLE?[6]

Explain cross-layer protocol in WSN. b)

[4]