BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI

		(END SEMESTER EXAMINATION)		
CLASS: BRANCH	MTECH I: CSE		SEMESTER : I SESSION : MO/18	
SUBJECT: IT503-WIRELESS SENSOR NETWORKS				
TIME:	03:00		FULL MARKS: 50	
 INSTRUCTIONS: 1. The question paper contains 5 questions each of 10 marks and total 50 marks. 2. Attempt all questions. 3. The missing data, if any, may be assumed suitably. 4. Before attempting the question paper, be sure that you have got the correct question paper. 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall. 				
Q.1(a)	Give a comparative account of traditional network and wireless sensor network in terms of challenges and constraints of WSN.		[5]	
(b)		ent performance parameters of single hope a	and multi-hope communication	[5]
Q.2(a) (b)		agation impairments. How propagation impa e need localization in WSN. Compare anchor a		[5] [5]
Q.3(a)	Elaborate the contention-fre disadvantages. Can one woul	ee and contention-based medium access st d be preferable over other?	rategies with advantages and	[5]
(b)		gram. Assume that the RTS and CTS frames ges of using CTS/RTS with your decision o		[5]
Q.4(a) (b)		allenges and design issues in Wireless Sensor le in WSN? Give the objective and basic prot		[5] [5]

- Q.5(a) What are the challenges of security in WSN? What characteristic of WSN make routing difficult to [5] implement.
 - (b) "Sensor Networks are vulnerable to a variety of attacks that attempt to compromise the network's [5] operation and data generated by sensor nodes". Justify.

******26.11.18*****M