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## VII SEMESTER B.TECH. (COMUPTER AND COMMUNICATION ENGINEERING)

## END SEMESTER EXAMINATIONS, NOVEMBER 2017

SUBJECT: WIRELESS SENSOR AND AD-HOC NETWORKS [ICT 4151]

## REVISED CREDIT SYSTEM (16/11/2017)

Instructions to Candidates:

Time: 3 Hours

MAX. MARKS: 50

İ	<ul> <li>Answer ALL the questions.</li> <li>Missing data if any, may be suitably assumed.</li> </ul>						
1A. 1B. 1C.	What is the relation between energy saving and sleep overhead? Derive an equation to prove the same.						
	Justify your answer.						
2A. 2B.	available for WSN? Briefly explain each architecture.  Why do nodes have mobility in a WSN scenario? What are the possible types of						
2C.	mobility? What is busy tone solution? How does it help random access protocols?						
3A. 3B. 3C.	time synchronization in WSN?  Compare S-MAC and SMACS protocols.						
4A.	Describe the operations of directed diffusion data centric protocol to connect the sink						
4B. 4C.	What are the route discovery, route expiry, and loop managing strategies used in AODV? "The localization protocols face several challenges for distributed location estimation". List those challenges.	5 3 2					
5A. 5B. 5C.	List and explain different attacks on physical sensor motes.  Define QoS attributes which are highly dependent upon the application of WSN.  What are voids or holes in Unicast location based routing?	5 3 2					

