Code No: 58039

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year II Semester Examinations, May - 2016 ADHOC AND SENSORS NETWORKS (Common to CSE, IT)

Time: 3 Hours

Max. Marks: 75

## Answer any Five Questions All Questions Carry Equal Marks

1.a) b) 2.a) b)	List out the characteristics of MANET's. Briefly explain the major issues and challenges in ad-hoc wireless networks.  What is flat routing? Explain the operation of DSR protocol.  Explain the operation of location Aided routing protocol.	[7+8]
3.a) b)	Explain and compare Multicasting and Geo casting.  What are the issues in designing a transport layer protocol for ad-hoc wireless.	ss networks?
4.a) b)	List out the applications of sensors.  Explain the significance of clustering of sensors.	[7+8]
5.****	Discuss CSMA based MAC protocols of sensor networks and compare TDMA/FDMA scheme.	with hybrid [15]
6.a) b)	Explain LEAP key management protocol in sensor networks.  Give various types of attacks that affect the routing protocols in sensor networks.	orks. [8+7]
7.a) b)	Explain the functions of various components of sensor network hardware.  What are the challenges of sensor network programming?	[8+7]
8.	Write a brief note on: a) Tiny OS b) TOSSIM.	[8+7]

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