R09

Code No: D4001

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M.Tech II - Semester Examinations, March 2011 ADHOC AND SENSOR NETWORKS (INFORMATION TECHNOLOGY)

Time: 3hours Max. Marks: 60

Answer any five questions All questions carry equal marks

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1. (a) What are the characteristics of MANETs.	
(b) Discuss about the topology based routing algorithms in MANETs.	[12]
	F1.01
2. Write about the Broadcast storm problem in detail.	[12]
3. Explain the Architecture of Wireless Sensor Networks with neat diagrams.	[12]
4. Discuss about the Inherent Dynamic nature of Wireless Sensor Networks.	[12]
5. Explain the routing layer design issues in sensor networks.	[12]
6. Explain the key management to secure the data transmissions in Wireless sens	or
networks.	[12]
7. What are the sensor network programming challenges and describe these in de	etail.
8. (a) Write short notes on Tiny OS	[12]
(b) What is the importance of ns-2 Simulator in WSN and how it is used to sin	nulate
the data transmissions?	[12]
