

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]
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 sensor networks. [12]
7. What are the sensor network programming challenges and describe these in detail. [12]
8. (a) Write short notes on Tiny OS
(b) What is the importance of ns-2 Simulator in WSN and how it is used to simulate the data transmissions? [12]
