

R09

Code No: 09A80505

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, April - 2014

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) Draw a neat sketch to explain the scope of various wireless technologies.
- b) List and explain any four challenges of mobile adhoc networks (MANETS).
- 2.a) Compare and contrast between proactive, reactive and hybrid routing approaches.
- b) Explain in detail about signal stability routing.
- 3.a) List and describe various protocols used in multicast routing.
- b) With an example, explain Round-Trip Time Estimation in TCP.
- 4.a) How energy consumption is performed in wireless sensor networks(WSN).
- b) List and explain any four applications of WSN.
- 5.a) Explain the design issues in MAC layer of sensor networks.
- b) With an example, explain location based routing.
- 6.a) Describe in detail about Security in Ad Hoc Networks.
- b) Discuss briefly about The Burmester and Desmedt Protocol.
- 7.a) List and explain the programming challenges in sensor networks.
- b) What are the components at node level simulator? Explain.
- 8.a) Explain in detail the semantics of TinyOS components.
- b) Briefly discuss about dataflow style language.

--ooOOo--