

R09

Code No: 58039

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, May - 2015

ADHOC AND SENSOR NETWORKS

(Common to CSE, IT)

Time: 3 Hours

Max. Marks: 75

**Answer any Five Questions
All Questions Carry Equal Marks**

1. List and explain in detail about various challenges of MANETs. [15]
- 2.a) Compare and Contrast between Topology-Based versus Position-Based approaches.
b) List and explain the principles of position based routing. [8+7]
- 3.a) What are the effects of partitions on Transmission Control Protocol?
b) Explain in detail about various multicast routing protocols. [7+8]
4. With a neat diagram explain the architecture of wireless Sensor networks. [15]
- 5.a) With the help of an example explain Cluster Based Routing Protocol.
b) Discuss in detail about the dynamic nature of wireless sensor networks. [8+7]
- 6.a) Give an example to explain the Detection and Isolation of Misbehaving Nodes.
b) Explain Diffie-Hellman Key Agreement for Key management in sensor networks. [8+7]
7. What are the various challenges in sensor network programming? Explain. [15]
8. Explain in detail about various concepts of TinyOS. [15]

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