R09

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) List out the characteristics of MANET's.
 b) Briefly explain the major issues and challenges in ad-hoc wireless networks.   [7+8]

2.a) What is flat routing? Explain the operation of DSR protocol.
 b) Explain the operation of location Aided routing protocol.   [8+7]

3.a) Explain and compare Multicasting and Geo casting.
 b) What are the issues in designing a transport layer protocol for ad-hoc wireless networks?
                                                                                           [8+7]

4.a) List out the applications of sensors.
 b) Explain the significance of clustering of sensors.   [7+8]

5. Discuss CSMA based MAC protocols of sensor networks and compare with hybrid TDMA/FDMA scheme.   [15]

6.a) Explain LEAP key management protocol in sensor networks.
 b) Give various types of attacks that affect the routing protocols in sensor networks. [8+7]

7.a) Explain the functions of various components of sensor network hardware.
 b) What are the challenges of sensor network programming?   [8+7]

8. Write a brief note on:
 a) Tiny OS
 b) TOSSIM.   [8+7]

--ooOoo--