

M E (EXTC) Choice Based - Credit & Grading Sys.
Sem II Wireless Adhoc & Sensor Networks Q.P. Code :09808

19/5/2017
[Marks:80]

[Time: 3 Hours]

Please check whether you have got the right question paper.

- N.B:
1. Questions No 1 is compulsory.
 2. Solve any three from remaining questions.
 3. Assume suitable data if required.

- Q.1 a) What are the characteristics of MANET? 05
b) Give the classification of routing protocols of adhoc Network. 05
c) Explain the need of clustering of sensor nodes in wireless sensor network. 05
d) Define NANO sensor networks. 05
- Q.2 a) Explain IEEE 802.22 reference architecture with suitable illustrations. With reference to this define: Relationship of devices, BS working, CPE working, BS coverage area, MA techniques. 10
b) What are the issues at the MAC layer with reference to TCP? Explain how these effects affect throughput of the network? 10
- Q.3 a) Explain distance routing effect algorithm for mobility (DREAM). How distance affects in DREAM? 10
b) Compare DSDV, DSR, AODV and TORA with reference to 10
i) Route acquisition
ii) Flood for route discovery
iii) Route Failure
- Q.4 a) Compare various forwarding strategies in adhoc sensor networks. 10
b) Name various tree based multicast routing protocols. Explain adhoc Multicast routing protocol utilizing increasing Id Numbers (AMRIS) 10
- Q.5 a) Explain the heterogeneous architecture for integration of MANETs, WLAN and cellular networks. 10
b) Explain the working of SPIN, LEACH and Directed diffusion and compare them on the basis of optimal route, Network life time and resource awareness. 10
- Q.6 Write Short Notes on Following :
a) Energy efficiency in WLAN 05
b) Bluetooth Security 05
c) Multi hop Cellular Network architecture 05
d) APTEEN 05