



Register Number:.....

M.E DEGREE EXAMINATIONS: NOV/DEC 2014

(Regulation 2013)

Third Semester

COMPUTER SCIENCE AND ENGINEERING

P13CSTE42 : ADHOC and Sensor Networks

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 2 = 20 Marks)

1. The bit error rate in a wireless channel is very high compared to wired network. Justify?
2. List the major categories of adhoc MAC protocols.
3. Outline the two types of resource-consumption attacks.
4. List the characteristics of an ideal routing protocol for adhoc networks.
5. Compare and contrast the major differences between adhoc and sensor networks.
6. Find out the probability of a path break for an eight-hop path, given that 0.2 is the probability of a link break.
7. Justify why GPS is not always feasible for WSN for location discovery.
8. Give an outline about breach path.
9. Write short notes on capacity models.
10. What are vehicular mesh networks?

Answer any FIVE Questions:-

PART B (5 x 16 = 80 Marks)

Q.No:11 is Compulsory

11. What is on-demand routing protocol? Illustrate the operation of AODV routing protocol citing its advantages and disadvantages.
12. Illustrate the principle and operation of Power control MAC (PMAC) protocol.

13. Discuss the design issues in multicast routing and the classification of multicast routing.
14. What is the role of sensor network in data gathering? Summarize the data gathering methods in WSN.
15. Explain the principle of operation of OLSR routing protocol in detail.
16. What is the need for mesh network? Explain the 802.11s architecture for mesh networks.
