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14SCN11

First Semester M.Tech Degree Examination, Dec.2014/Jan.2015
Wireless Adhoc Networks

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1 a. Explain any sight issues of Adhoc wireless network. (04 Marks)
b. Explain Adhoc wireless Internet, with a neat schematic diagram. (06 Marks)
c. With frame format, explain HOP reservation multiple access protocol. (10 Marks)
- 2 a. Describe the temporally ordered routing algorithm (TORA) for adhoc networks along with its pros and cons. (10 Marks)
b. Explain the route establishment in DSDV with example. (10 Marks)
- 3 a. Explain the design issues in multicast routing protocol. (05 Marks)
b. Explain the architecture reference model for multi cast routing protocol in wireless adhoc networks. (10 Marks)
c. What are the classifications of multicast routing protocol? (05 Marks)
- 4 a. Explain the issues and design goals of transport layer protocol for Adhoc wireless networks. (08 Marks)
b. Explain the key management in adhoc wireless networks. (08 Marks)
c. Define active and passive attacks. (04 Marks)
- 5 a. What are the characteristics of the energy management in wireless Adhoc networks? (10 Marks)
b. Explain the battery scheduling techniques. (06 Marks)
c. Explain the Lazy packet scheduling scheme. (04 Marks)
- 6 a. Describe the working mechanism of MAC protocol using directional antennas. Also in brief explain one protocol in this category. (10 Marks)
b. Explain the five phase reservation protocol (FPRP) with frame work. (05 Marks)
c. Define Soft Reservation. Explain soft reservation multiple access with priority assignment using frame structure. (05 Marks)
- 7 a. Discuss the important routing metrics that would help in attaining power efficiency. (06 Marks)
b. List advantages and disadvantages of SPLIT TCP. (04 Marks)
c. Explain the Flow oriented routing protocol. (10 Marks)
- 8 a. Explain the ticket based QOS routing protocol. (06 Marks)
b. Explain the cluster TDMA protocol for MAC layer QOS. (08 Marks)
c. Write a short note on : (06 Marks)
i) Denial of service ii) Impersonation.

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.