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10CS/IS841

Eighth Semester B.E. Degree Examination, Dec.2018/Jan.2019

Adhoc Networks

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

PART – A

- 1 a. Explain briefly applications of adhoc networks. (10 Marks)
b. List any five differences between cellular network and adhoc network. (05 Marks)
c. Explain briefly any five major challenges that routing protocol faces. (05 Marks)
- 2 a. List and briefly explain design goals of MAC protocol for adhoc wireless network. (10 Marks)
b. Explain briefly floor acquisition multiple access protocol and MACA with piggy backed reservation. (10 Marks)
- 3 a. Explain briefly distributed Laxity based priority scheduling scheme. (10 Marks)
b. Explain briefly MAC protocol using directional antennas. (10 Marks)
- 4 a. Explain briefly Destination Sequenced Distance Vector routing protocol (DSDV). (12 Marks)
b. List and explain categories based on which routing protocol are classified. (08 Marks)

PART – B

- 5 a. Explain briefly power aware routing metrics. (10 Marks)
b. Explain zone based hierarchical link state routing protocol. (10 Marks)
- 6 a. Explain briefly why TCP does not perform well in adhoc wireless networks. (10 Marks)
b. Give comparison of TCP solution for Adhoc wireless network with respect to various TCP protocols. (10 Marks)
- 7 a. List and explain network layer attacks. (10 Marks)
b. Explain briefly symmetric and asymmetric key cryptography in adhoc networks. (10 Marks)
- 8 a. Explain briefly issues and challenges in providing QoS in adhoc networks. (10 Marks)
b. Explain briefly classification of QoS solution in adhoc networks. (10 Marks)

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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.

