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10CS/IS841

Eighth Semester B.E. Degree Examination, Jan./Feb.2021
Adhoc Networks

Time: 3 hrs.

Max. Marks:100

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

PART – A

- 1 a. Explain the major issues in Adhoc Networks while designing MAC protocol. (08 Marks)
- b. Explain any four applications of Adhoc wireless network. (06 Marks)
- c. Explain the major issues in Adhoc Wireless Internet. (06 Marks)
- 2 a. Explain MARCH protocol for Adhoc Wireless Network. (10 Marks)
- b. Explain with example the working of five phase reservation protocol. (10 Marks)
- 3 a. Explain distributed priority scheduling mechanism with neat diagram in adhoc wireless network. (10 Marks)
- b. Explain directional busy tone based MAC protocol. Write the advantages. (10 Marks)
- 4 a. Explain the classification of Routing protocols. (08 Marks)
- b. Explain cluster-head Gateway switch Routing protocol in Adhoc networks. (08 Marks)
- c. What are the ideal characteristics of Routing protocol for Adhoc networks? (04 Marks)

PART – B

- 5 a. Explain zone-based hierarchical link state routing protocol with neat diagram. (10 Marks)
- b. Explain the power aware routing metrics in adhoc networks. (10 Marks)
- 6 a. Explain the issues and design goals of transport layer protocol for adhoc wireless networks. (10 Marks)
- b. Discuss the operation of feedback based TCP with a suitable example. (10 Marks)
- 7 a. Explain different attacks pertaining to network layer. (10 Marks)
- b. Explain symmetric key algorithm. (05 Marks)
- c. Explain security-aware adhoc routing protocol. (05 Marks)
- 8 a. Give layer wise classification of existing QoS solution. (08 Marks)
- b. Write notes on:
 - (i) Real time traffic support in Adhoc Network.
 - (ii) Cluster TDMA. (12 Marks)

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.