



10CS/IS841

Eighth Semester B.E. Degree Examination, June/July 2023
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. List and explain different application of Adhoc network. (06 Marks)
b. Explain any four major issues and challenges that need to be considered in Adhoc wireless system. (08 Marks)
c. What are the major requirements of routing protocol in Adhoc wireless network? (06 Marks)
- 2 a. Explain the classification of MAC protocol. (05 Marks)
b. With a neat diagram, explain hidden and exposed terminal problems. (05 Marks)
c. Explain distributed packet reservation multiple access protocol. (10 Marks)
- 3 a. With a neat diagram, explain directional Mac protocol for Adhoc wireless network. (10 Marks)
b. Explain multichannel Mac protocol. (10 Marks)
- 4 a. List any 5 characteristic of an ideal Routing protocol for Adhoc Wireless Network. (05 Marks)
b. Explain wireless routing protocol with diagram. (07 Marks)
c. Explain Temporal ordered Routing Algorithm with diagram. (08 Marks)

PART – B

- 5 a. Explain the optimized link state routing with diagram, mentioning advantages and disadvantages. (10 Marks)
b. Explain the Fisheye state Routing Protocol with example (10 Marks)
- 6 a. List and explain any 6 design goals of a transport layer protocol for Adhoc wireless network. (06 Marks)
b. Explain Feedback based TCP. (06 Marks)
c. Explain with diagram application controlled Transport protocol with advantages and disadvantages. (08 Marks)
- 7 a. Give brief descriptions of attacks pertaining to the network layer in the network protocol stack. (10 Marks)
b. Briefly explain the requirement for a secure routing protocol. (04 Marks)
c. Explain security Aware Ad hoc Routing Protocol. (06 Marks)
- 8 a. Explain the characteristics that affects QoS provisioning in Adhoc wireless network. (07 Marks)
b. Explain the Predictive location Based QoS routing protocol. (13 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.