



10CS/IS841

Eighth Semester B.E. Degree Examination, July/August 2021

Adhoc Networks

Max. Marks: 100

Time: 3 hrs.

Note: Answer any FIVE full questions.

- 1 a. Differentiate between cellular network and ADHOC networks. (08 Marks)
b. Explain any six issues of ADHOC wireless networks. (12 Marks)
- 2 a. Define soft reservation. Explain Soft Reservation Multiple Access with Priority Assignment (SRMA/PA), using frame structure. (10 Marks)
b. Explain HOP reservation multiple access protocol using frame structure. (10 Marks)
- 3 a. Explain Distributed Laxity based priority scheduling scheme with feedback mechanism. (10 Marks)
b. Explain Multichannel MAC Protocol (MMAC) and explain how Receiver Selects Channel. (10 Marks)
- 4 a. List the characteristics of an ideal routing protocol for an ADHOC wireless network. (10 Marks)
b. Explain Distance Sequenced Distance Vector (DSDV) Routing Protocol. (10 Marks)
- 5 a. Explain core extraction based distributed ADHOC routing protocol. (10 Marks)
b. Explain power aware routing metrics. (10 Marks)
- 6 a. Why does TCP Not perform well in ADHOC wireless networks? (10 Marks)
b. Explain the state transition diagram of ADHOC-TCP (ATCP).Sender (10 Marks)
- 7 a. Briefly discuss Network Layer attacks. (10 Marks)
b. Explain key management in ADHOC wireless networks. (10 Marks)
- 8 a. Explain the issues and challenges in providing QoS in ADHOC Wireless Networks. (10 Marks)
b. Explain QoS-Enabled Adhoc On-Demand Distance Vector routing protocol. (10 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.