



Eighth Semester B.E. Degree Examination, June/July 2024
AD-hoc 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 the difference between cellular and adhoc wireless networks. (10 Marks)
 b. Discuss in brief the major issues and challenges that need to be considered when an adhoc wireless system is to be designed. (10 Marks)
- 2 a. Discuss the issues in designing a MAC protocol for adhoc wireless network. (10 Marks)
 b. Explain the five phase reservation protocol in detail. (10 Marks)
- 3 a. Describe distributed priority scheduling scheme. (10 Marks)
 b. Explain the directional busy tone based MAC protocol. (10 Marks)
- 4 a. List the characteristics of an ideal routing protocol for an adhoc wireless network. (08 Marks)
 b. Explain Cluster head gateway switch routing protocol with neat diagram. (06 Marks)
 c. Explain associativity based routing (ABR) protocol with neat diagram. (06 Marks)

PART - B

- 5 a. Explain Fisheye state routing protocol with necessary routing tables. (10 Marks)
 b. Explain in detail zone routing protocol (ZRP). (10 Marks)
- 6 a. Explain issues in designing a transport layer for adhoc wireless networks. (10 Marks)
 b. Explain the application controlled protocol. (10 Marks)
- 7 a. Explain network layer attacks in adhoc wireless network. (10 Marks)
 b. Explain the security aware adhoc routing protocol. (10 Marks)
- 8 a. Discuss some of the design choices for providing QoS support in adhoc networks. (06 Marks)
 b. Describe briefly the ticket based QoS routing protocol used in adhoc wireless network. (06 Marks)
 c. Explain QoS enabled adhoc on-demand distance vector routing protocol. (08 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.

CMRIT LIBRARY
 BANGALORE - 560 037