



USN

--	--	--	--	--	--	--	--	--	--

10CS/IS841

Eighth Semester B.E. Degree Examination, Dec.2023/Jan.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. Explain the wireless routing protocol. (10 Marks)
b. Explain the Flow-oriented Routing protocol. (10 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 any five major reasons for throughput degradation of TCP when used in adhoc wireless network. (10 Marks)
b. With a neat diagram, explain the operations of adhoc-TCP (ATCP) 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)

CMRIT LIBRARY
BANGALORE - 560 037
