



10CS/IS841

Eighth Semester B.E. Degree Examination, July/August 2022
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. Bring out the differences between cellular network and ADHOC network. (10 Marks)
b. List and explain major issues in adhoc wireless networks. (10 Marks)
- 2 a. Explain the issues that need to be addressed while designing a MAC protocol for adhoc networks. (10 Marks)
b. Briefly explain the five phase reservation protocol with frame structure. (10 Marks)
- 3 a. Give brief explanation of Distributed Wireless Ordering Protocol (DWOP). (10 Marks)
b. Explain MAC protocol using directional antennas. (10 Marks)
- 4 a. Explain any three issues in designing a routing protocol for adhoc wireless networks. (06 Marks)
b. Give the classification of routing protocols for ADHOC networks, based on the routing information update mechanism. (06 Marks)
c. Write a short note on dynamic source Routing protocol. (08 Marks)

PART – B

- 5 a. Explain any one hierarchical Routing protocol. (10 Marks)
b. Explain the zone routing protocol with an example. (10 Marks)
- 6 a. List out the design goals of a transport layer protocol for adhoc wireless network. (10 Marks)
b. Discuss briefly any five reasons, why TCP does not perform well in Adhoc wireless networks. (10 Marks)
- 7 a. Briefly explain the network layer attacks. (10 Marks)
b. Write short note on symmetric and asymmetric key algorithms. (10 Marks)
- 8 a. Explain the issues and challenges in providing QoS in adhoc wireless networks. (10 Marks)
b. Explain Ticket-Based QoS 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.

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