

CBCS SCHEME

18SCN23

Second Semester M.Tech. Degree Examination, June/July 2019 Wireless Ad-hoc Networks

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Identify any ten differences between cellular wireless networks and Ad Hoc wireless networks. (10 Marks)
- b. Explain the major issues one needs to address while designing a MAC protocol for Ad Hoc wireless network. (10 Marks)

OR

- 2 a. Illustrate with packet exchange diagram, the MACAW protocol used in wireless Ad Hoc networks and its advantages over MACA protocol. (10 Marks)
- b. Illustrate Soft Reservation Multiple Access with Priority Assignment (SRMA/PA) protocol using the frame structure. (10 Marks)

Module-2

- 3 a. Explain the characteristic of an ideal routing protocol for Ad Hoc wireless network. (10 Marks)
- b. Explain any two table driven routing protocols with their advantages and disadvantages. (10 Marks)

OR

- 4 a. Illustrate the route establishment in Ad Hoc On-Demand Distance – Vector Routing Protocol with its advantages and disadvantages. (10 Marks)
- b. Elaborate on zone routing protocol and zone based hierarchical link state routing protocol. (10 Marks)

Module-3

- 5 a. Explain the operations of multicast routing protocols. (10 Marks)
- b. Explain the architecture reference model for multicast routing protocols. (10 Marks)

OR

- 6 a. Explain Bandwidth-Efficient Multicast Routing Protocol with their advantages and disadvantages. (10 Marks)
- b. Describe the On-Demand Multicast Routing Protocol with their advantages and disadvantages. (10 Marks)

Module-4

- 7 a. Explain the issues and design goals of transport layer protocol for Ad Hoc wireless networks. (10 Marks)
- b. With a neat diagram, show the working of TCP-F protocol with advantages and disadvantages. (10 Marks)

