

YMCA UNIVERSITY OF SCIENCE & TECHNOLOGY, FARIDABAD

B. TECH. 6TH SEMESTER (UNDER CBS)

MOBILE ADHOC NETWORKS(IT-308)

Time: 3 Hours

Max. Marks:60

- Note: 1. It is compulsory to answer the questions of Part -1
2. Answer any four questions from Part -2 in detail.
3. Different parts of the same question are to be attempted adjacent to each other.

PART -1

- Q1 (a) Give any two salient features of Proactive Routing? (2)
(b) How is the loop free property ensured in table-driven routing protocol (2)
(c) Differentiate between wired and wireless network. (2)
(d) Explain, why security is important issue in mobile adhoc routing? (2)
(e) Explain the term "Fairness" in context with adhoc network? (2)
(f) Differentiate between IntServ and DiffServ. (2)
(g) Discuss the term "Promiscuous mode". (2)
(h) Give any two disadvantages of Wireless Routing Protocol. (2)
(i) Explain the term broadcasting. (2)
(j) Explain the base concept of Signal Stability- Based Adaptive Routing Protocol (2)

PART -2

- Q2 (a) Explain the location and delay prediction in Location Aided routing (LAR1 and LAR2 both). (8)
(b) Define Exposed Terminal Problem. (2)
- Q3 Differentiate between: (5*2)
• Stateful and Stateless approach
• Co-Channel and Adjacent Channel Interference
- Q4 (a) Briefly explain the characteristics that affect the QoS provisioning in Mobile Adhoc wireless network. (5)
(b) Explain the following major requirements of routing protocol: (5)
• Minimum Route acquisition delay
• Quick route reconfiguration
- Q5 (a) Explain Temporally Ordered Routing Algorithm(TORA) in detail along with example. (8)
(b) Explain any two power aware routing matrices? (2)
- Q6 (a) Discuss the difference in topology reorganization in DSDV and CGSR routing protocol. (8)
(b) Explain, why approach used in INORA is better than INSIGNIA (2)
- Q7 Write short notes on (5*2)
Delay free approaches for Battery Scheduling
Ticket Based Routing Protocol
