

Indian Institute of Information Technology, Allahabad

ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT

Course Name: Wireless Communication

EXPERIMENT NO: 5

Objective: To Study CSMA/CA (Carrier Sense Multiple Access with Collision Avoidance) MAC layer protocol

Materials/ Component Required :

Network Simulator (NetSim)

Procedure:

1. New → advanced wireless networks → MANET.
2. Select one source and destination node connected.
3. Now simulate the three scenarios as done for slotted aloha case (Experiment-4) and
4. obtain the results.

Analyze the above systems in terms of throughput, average delay, number of collisions and errors. Throughput of the system is given by the sum of the throughput of all the links. Average delay is the average of the delay associated with all the links.

Result: By using NetSim, we have studied and analysis the CSMA/CA-MAC layer protocol.