73. Carrier Sense Multiple Access Part 2

Outcomes of this Session are –

1. Understand CSMA/CD.
2. Understand CSMA/CA.

CSMA / CD –

* It is used for the Wired Networks using Ethernet.
* If two stations detect the channel is IDLE, they start transmitting simultaneously, but when they sense the frame collision took place, they quickly take back the transmission.
* This pulling back method of the data frames that may disrupt other connections and transmissions is done by CSMA / CD.
* Quickly terminating damaged frames saves time and bandwidth.
* This CSMA / CD is widely used in the MAC layer in the LAN’s.
* Access method used by Ethernet is CSMA / CD.

CSMA / CA –

* It is used for the wireless technology like smart phones.
* The CSMA / CA is used for the Collision Avoidance.
* The station starts the data transmission only when the Channel is in IDLE state.
* CSMA / CA is unreliable due to hidden node problem and Exposed Node problem.
* The solution for the hidden node and exposed node is RTS/CTS exchange.