EXPERIMENT-15

Design the network model for Subnetting – Class C Addressing using Packet Tracer.

Aim: To implement Data Link Layer Traffic Simulation using Packet Tracer Analysis
of CSMA/CD & CSMA/CA.

Software / Apparatus required: Packet Tracer / End devices, Switches, connectors.

Requirements:

1.End device - They are the devices through which we can pass message from one device to another and they are interconnected.

2. Switch/Hub - Interface Between two devices.

3. Cable - Used to connect two devices

Procedure:

STEP 1: Click on end devices, select generic Pc's drag and drop it on the window. Click on SWITCH drag and drop it on the window.

STEP 2: Select the straight through cable and connect all end device to switch. Assign the IP
address for all end devices. (Double click the end device Select → desktop → IP configuration static)

STEP 3: Now set the IP address to Host A (192.168.1.1) in static mode. Similarly set IP address
for Host B (192.168.1.2) and Host C (192.168.1.3)

STEP 4: To view the IP address, give ip config command in command prompt. Using ping
command, we can establish communication between two host devices.

STEP 5: Now display the packet transmission in simulation mode.