

## Dept. of Computer Science and Engineering (CSE)

Final Exam

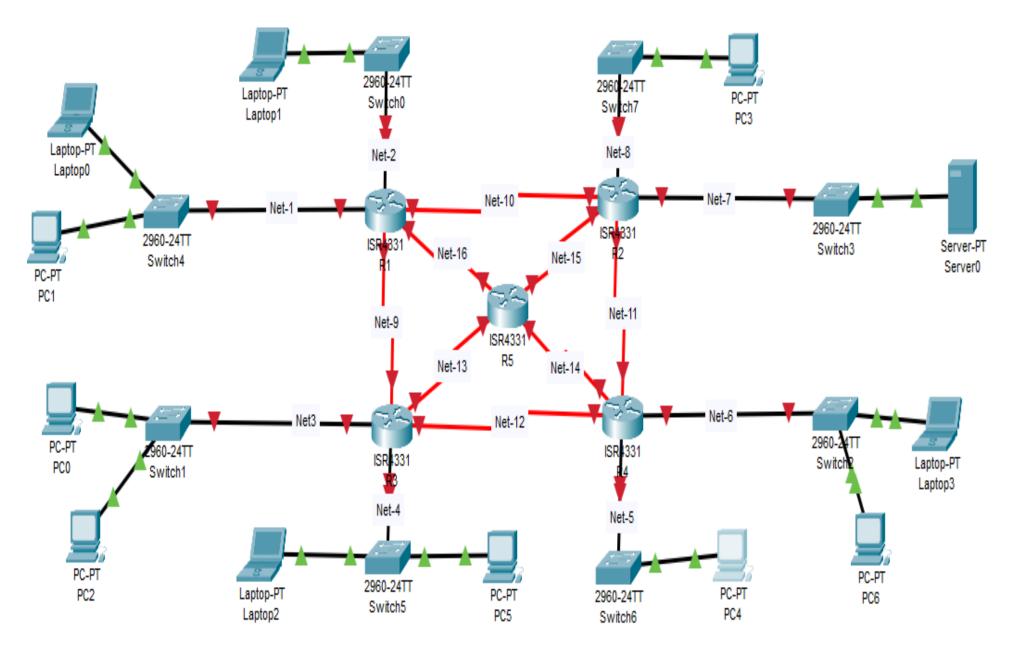
Year: 2024

Semester: Summer

Course: CSE 3712

Title: Computer Network Lab (Sec – C)

Marks: 20



## **Instructions:**

- 1. Draw the network topology above in Packet Tracer.
- 2. Perform Subnetting using the following information:

IP Address to be Sub-netted: 15. xxx . 0 . 0 / 21

xxx = Trimester ID (last 3 digits)

Example:  $[011\ 222\ 170 \Rightarrow xxx=170]$ 

[011 222 368 => xxx=112]

Consider, the following requirement of Host devices for each of the networks:

Net-1 (439 devices)	Net-2 (78 devices)	Net-3 (120 devices)	Net-4 (45 devices)
Net-5 (200 devices)	Net-6 (100 devices)	Net-7 (21 devices)	Net-8 (190 devices)

## ( Perform the subnetting table in MS word and upload it along with the Packet Tracer file in ELMS)

- 3. Configure all the Router interfaces according to the subnetting you have done in the MS word file.
- 4. Perform DHCP for all the LAN's (Net-1 to Net-8) in the Network topology.
- 5. Perform Static Routing on all the Routers.
- 6. Use Ping to Test your connection to see, if all the subnets can transfer packets among them. (For example, ping Server- 0 from PC-1)