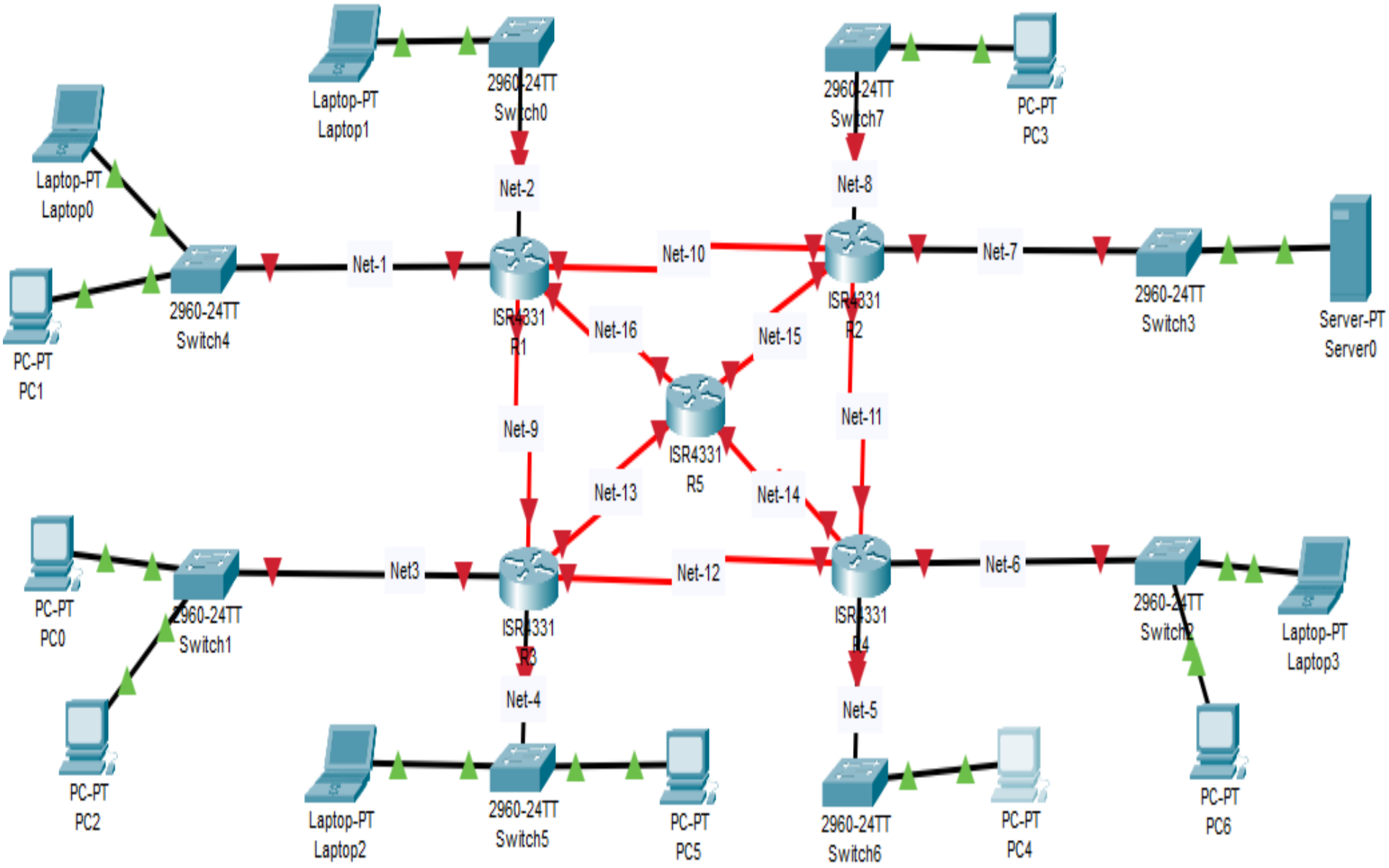
Dept. of Computer Science and Engineering (CSE)

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 => 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)