

Lab Test #2

TERM	Name – Student ID	COURSE CODE	WEIGHT
Summer 2020	REBAL ALI QURESHY-RAQURESHY	HWD101	12.5%

Test Instructions

- Enter your name and student ID above (Example: david – dtrinh)
- Answer questions and add screenshots into the corresponding textboxes
- Save the file on your computer for future reference
- Save the file again as a “.pdf” file
- Submit the PDF file for grading
- Submit your packet tracer file for grading

Test Format

- Duration: 90 minutes
- Total Marks: 41
- Weight: 12.5%

Test Materials

- Cisco Packet Tracer 7.2.2
- Open book

SENECA’S ACADEMIC HONESTY POLICY

By beginning this test, I affirm that I will not give or receive any unauthorized help in this test and that all work provided will be my own. I agree to abide by Seneca’s Academic Integrity Policy and I understand that any violation of academic integrity will be subject to the penalties outlines in the policy.

Part 1: Network Address [1 mark]

Log into Blackboard to find the network you have been assigned. The network will appear under “My Grades”.

Enter your network address: 152.152.152.0 /24

Part 2: Scenario

Seneca’s Lab Assistants are starting an organization to provide lab support for existing students. They want to setup 3 teams in this organization which are assigned their own networks. They will need the following:

- 1 network for each department called
 - HWD101
 - IOS110
 - ULI101
- Each network will have 3 PCs
- PCs must be able to communicate within its own network
- PCs must be able to communicate with PCs from other networks
- Gateways in each network need to be configured with the first available IP address in their networks

Part 3: Subnet the Network [16 marks]

Determine the number of networks needed and subnet your network accordingly.

List out ALL the subnets created and their corresponding ranges. Enter the information in the attached table (add additional table rows as needed):

Subnet #	Subnet ID	Subnet Mask	Host Address Range	# of Valid Hosts	Broadcast ID
HWD101	152.152.152.0	255.255.255.248	152.152.152.1-152.152.152.6	254	152.152.152.7
IOS110	152.152.152.8	255.255.255.248	152.152.152.9-152.152.152.14	254	152.152.152.15
ULI101	152.152.152.16	255.255.255.248	152.152.152.17-	254	152.152.152.23

			152.152.152.22		

Part 4: Create the Networks [24 marks]

Using Cisco Packet Tracer version 7.2.2, create the networks. Configure the networks using the subnets you calculated. Remember the network requirements:

- Each network will have 3 PCs
- PCs must be able to communicate within its own network
- PCs must be able to communicate with PCs from other networks
- Gateways in each network need to be configured with the first available IP address in their networks

Remember to submit your packet tracer file for grading!