

Quiz-7

Due Apr 7 at 9:15pm	Points 8	Questions 8
Available Apr 7 at 9pm - Apr 7 at 9:15pm	15 minutes	Time Limit None

Instructions

This quiz is open book, open notes. You may leave after submitting the quiz.

This quiz was locked Apr 7 at 9:15pm.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	10 minutes	7 out of 8

⚠️ Correct answers are hidden.

Score for this quiz: 7 out of 8

Submitted Apr 7 at 9:09pm

This attempt took 10 minutes.

Incorrect

Question 1

0 / 1 pts

What's Inside a Router?

☐ Input ports, output ports, and routing processor

☒ Input ports, output ports, queues, and buffers

☐ Input ports, output ports, and connectors

☐ Input ports, output ports, routing processor, and switching fabric

Question 2

1 / 1 pts

Packet queues may form at _____.

- ☐ switching fabric
- ☐ output ports
- ☒ both input ports and output ports
- ☐ input ports

Question 3

1 / 1 pts

In routers, large input/output port buffer sizes _____.

- ☒ can cause longer queueing delay
- ☐ have no impact on packet loss rate
- ☐ should be made a standard feature
- ☐ are better for gamers and interactive users

Question 4

1 / 1 pts

In a _____ device interfaces can physically reach each other without passing through an intervening router.

- ☒ subnet
- ☐ host

☐ network

☐ packet switch

Question 5

1 / 1 pts

The simplest, earliest routers were traditional computers, with switching via _____.

☐ an interconnection network

☐ none of these

☐ a bus

☒ memory

Question 6

1 / 1 pts

The DHCP client creates an IP datagram containing its DHCP discover message using the destination IP address value _____.

☐ 0.0.0.0

☒ 255.255.255.255

☐ which is the IP address of the DHCP server

☐ 192.168.0.1

Question 7

1 / 1 pts

Given the subnet address 10.203.192.0/28

How many hosts can there be in this address space?

Answer by entering the number only.

Question 8

1 / 1 pts

Suppose that the ISP assigns the router the address 42.20.112.35 and that the network address of the home local area network is 192.168.1/24.

The home network router also functions as a NAT with LAN side port number starting at 4500, WAN side port number starting at 5500.

Suppose there is currently **only one host in the home network** and it has an ongoing TCP connection to port 80 at remote server host 23.45.112.31.

Select the appropriate entry for this one host connection in the NAT translation table assuming that host local address number starts at 1:

WAN side: 42.20.112.35, 5500

LAN side: 192.168.1.1, 4500

Answer 1:

42.20.112.35, 5500

Answer 2:

192.168.1.1, 4500

Quiz Score: **7** out of 8