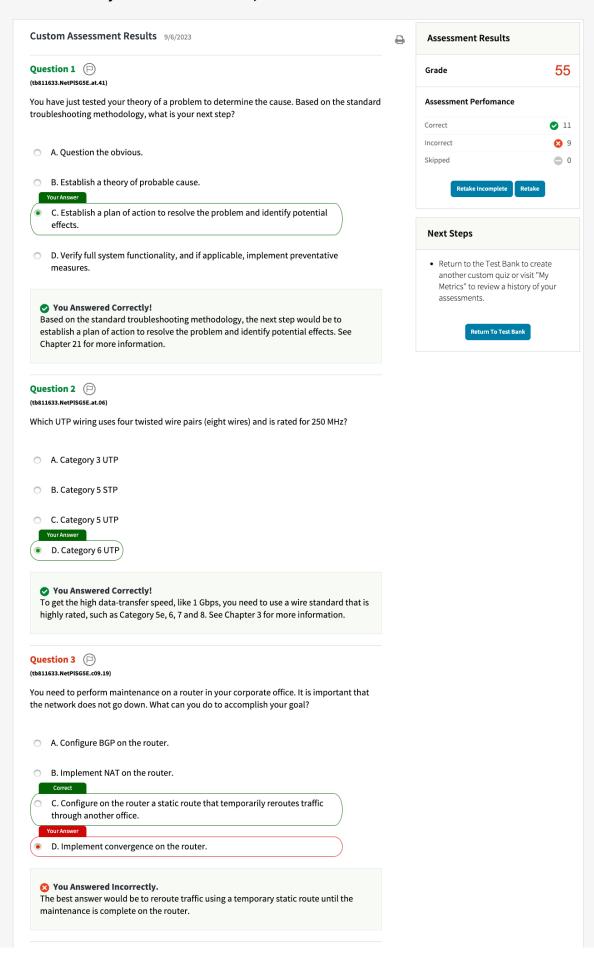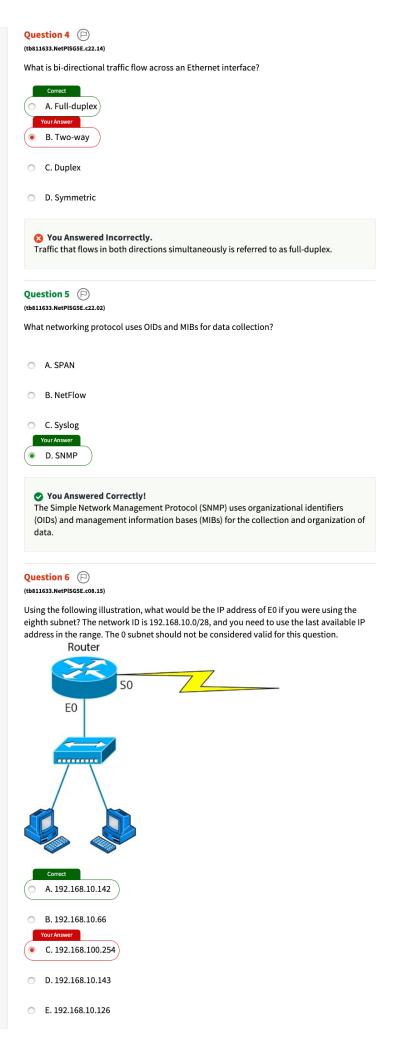# Network+ Study Guide: Exam N10-008, 5th Edition

Custom Assessment Results 9/6/2023

Question 1 ⓟ
(tb811633.NetPlSG5E.at.41)

You have just tested your theory of a problem to determine the cause. Based on the standard troubleshooting methodology, what is your next step?

○ A. Question the obvious.

○ B. Establish a theory of probable cause.

Your Answer
◉ C. Establish a plan of action to resolve the problem and identify potential effects.

○ D. Verify full system functionality, and if applicable, implement preventative measures.

> ✅ **You Answered Correctly!**
> Based on the standard troubleshooting methodology, the next step would be to establish a plan of action to resolve the problem and identify potential effects. See Chapter 21 for more information.

Question 2 ⓟ
(tb811633.NetPlSG5E.at.06)

Which UTP wiring uses four twisted wire pairs (eight wires) and is rated for 250 MHz?

○ A. Category 3 UTP

○ B. Category 5 STP

○ C. Category 5 UTP

Your Answer
◉ D. Category 6 UTP

> ✅ **You Answered Correctly!**
> To get the high data-transfer speed, like 1 Gbps, you need to use a wire standard that is highly rated, such as Category 5e, 6, 7 and 8. See Chapter 3 for more information.

Question 3 ⓟ
(tb811633.NetPlSG5E.c09.19)

You need to perform maintenance on a router in your corporate office. It is important that the network does not go down. What can you do to accomplish your goal?

○ A. Configure BGP on the router.

○ B. Implement NAT on the router.

Correct
○ C. Configure on the router a static route that temporarily reroutes traffic through another office.

Your Answer
◉ D. Implement convergence on the router.

> ❌ **You Answered Incorrectly.**
> The best answer would be to reroute traffic using a temporary static route until the maintenance is complete on the router.

Assessment Results

Grade	**55**

Assessment Perfomance

Correct	✅	11
Incorrect	❌	9
Skipped	⊖	0

[Retake Incomplete] [Retake]

Next Steps

- Return to the Test Bank to create another custom quiz or visit "My Metrics" to review a history of your assessments.

[Return To Test Bank]

Question 4

(tb811633.NetPlSG5E.c22.14)

What is bi-directional traffic flow across an Ethernet interface?

Correct

○ A. Full-duplex

Your Answer

◉ B. Two-way

○ C. Duplex

○ D. Symmetric

> ❌ **You Answered Incorrectly.**
> Traffic that flows in both directions simultaneously is referred to as full-duplex.

Question 5

(tb811633.NetPlSG5E.c22.02)

What networking protocol uses OIDs and MIBs for data collection?

○ A. SPAN

○ B. NetFlow

○ C. Syslog

Your Answer

◉ D. SNMP

> ✓ **You Answered Correctly!**
> The Simple Network Management Protocol (SNMP) uses organizational identifiers (OIDs) and management information bases (MIBs) for the collection and organization of data.

Question 6

(tb811633.NetPlSG5E.c08.15)

Using the following illustration, what would be the IP address of E0 if you were using the eighth subnet? The network ID is 192.168.10.0/28, and you need to use the last available IP address in the range. The 0 subnet should not be considered valid for this question.

Router

S0

E0

Correct

○ A. 192.168.10.142

○ B. 192.168.10.66

Your Answer

◉ C. 192.168.100.254

○ D. 192.168.10.143

○ E. 192.168.10.126

❌ You Answered Incorrectly.
A /28 is a 255.255.255.240 mask. Let's count to the ninth subnet (we need to find the broadcast address of the eighth subnet, so we need to count to the ninth subnet). We start at 16 (remember, the question stated that we will not use subnet 0, so we start at 16, not 0): 16, 32, 48, 64, 80, 96, 112, 128, 144. The eighth subnet is 128, and the next subnet is 144, so our broadcast address of the 128 subnet is 143. This makes the host range 129–142. 142 is the last valid host.

Question 7 🏳

(tb811633.NetPlSG5E.pe4.05)

Frame Relay is considered what type of technology?

Your Answer
◉ A. Packet switching

○ B. Cell switching

○ C. Point to point

○ D. Circuit switching

> **✓ You Answered Correctly!**
> Frame Relay is the frame WAN technology in which variable-length packets are transmitted by switching.

Question 8 🏳

(tb811633.NetPlSG5E.c21.19)

What term describes technologies that can deliver voice communications over the Internet?

○ A. Jitter

○ B. Uptime

Your Answer
◉ C. Voice over Internet Protocol

○ D. None of the above

> **✓ You Answered Correctly!**
> *Voice over Internet Protocol (VoIP)* is a general term that describes several technologies that are able to deliver voice communications over the Internet or other data networks.

Question 9 🏳

(tb811633.NetPlSG5E.c24.15)

You are troubleshooting a LAN switch and have identified the symptoms. What is the next step you should take?

Correct
○ A. Escalate the issue.

○ B. Create an action plan.

○ C. Implement the solution.

Your Answer
◉ D. Determine the scope of the problem.

> **❌ You Answered Incorrectly.**
> Once you have determined that the switch or the configuration of the switch is the problem, you need to escalate the issue.

Question 10 🏳

(tb811633.NetPlSG5E.pe6.50)

A user has connected their laptop to a small office, home office (SOHO) router. The router

connects to a cable modem. The laptop is unable to get an Internet Protocol (IP) address. The user notices that the link status light-emitting diode (LED) is not illuminated on the router or laptop. What is the most likely cause of the problem?

○ A. Dynamic Host Configuration Protocol (DHCP) is not enabled on the router.

○ B. There is a bad port on the cable modem.

Your Answer
◉ C. There is a bad cable or the wrong cable type.

○ D. An incorrect Internet Protocol (IP) is configured on the router.

✅ **You Answered Correctly!**
The cable going from a host or laptop and connecting to a cable modem needs to be a straight-through cable. The user should check to make sure the cable is correct or try another cable to see if the first one was bad.

Question 11 ⊡
(tb811633.NetPlSG5E.pe6.11)

You are on the Web watching videos and get a Session Timed Out message. What layer of the OSI would cause this issue?

Your Answer
◉ A. 7

○ B. 4

○ C. 3

○ D. 1

✅ **You Answered Correctly!**
The server timed out, so this is an Application layer, or layer 7, issue.

Question 12 ⊡
(tb811633.NetPlSG5E.at.42)

Which network performance optimization technique can delay packets that meet certain criteria to guarantee usable bandwidth for other applications?

Correct
○ A. Traffic shaping

○ B. Jitter control

○ C. Logical network mapping

Your Answer
◉ D. Load balancing

○ E. Access lists

❌ **You Answered Incorrectly.**
Traffic shaping, also known as packet shaping, is a form of bandwidth optimization. See Chapter 21 for more information.

Question 13 ⊡
(tb811633.NetPlSG5E.c23.05)

You need to create a cable that will connect your host to a wall jack connection. Which of the following will you use?

○ A. IDS/IPS

Correct
○ B. Snips

Your Answer

- ● C. Coax cable strippers
- ○ D. Multimeter

> ❌ **You Answered Incorrectly.**
> To create a patch cable (568A) to connect your host to a jack in the wall, you need to use a snip.

Question 14
(tb811633.NetPlSG5E.c21.13)

When the vendor provides the hardware platform or data center, and the company installs and manages its own operating systems and application systems, which service type is being used?

- ○ A. Software as a Service

Correct
- ○ B. Infrastructure as a Service

Your Answer
- ● C. Platform as a Service

- ○ D. Desktop as a Service

> ❌ **You Answered Incorrectly.**
> There are many different service type offerings from the cloud providers, IaaS, or Infrastructure as a Service, is when the cloud vendor provides the hardware platform, and the company installs and manages its own operating systems.

Question 15
(tb811633.NetPlSG5E.pe3.13)

Which of the following will tell you if an IPv6 host is alive on the network?

- ○ A. `trace ipv6 address`

Your Answer
- ● B. `ping -6 address`

- ○ C. `hello ipv6 address`

- ○ D. `ipconfig -ipv6 address`

> ✅ **You Answered Correctly!**
> The command `ping -6 address` will ping a host and tell you if the IPv6 stack is initialized.

Question 16
(tb811633.NetPlSG5E.c17.10)

Which of the following uses the same SSID as your AP?

- ○ A. Rogue AP

Your Answer
- ● B. Rogue DHCP

Correct
- ○ C. Evil twin

- ○ D. Zombie

> ❌ **You Answered Incorrectly.**
> This ugly trick is achieved by placing their AP on a different channel from your legitimate APs and then setting its SSID in accordance with your SSID.

Question 17

A receiving host has failed to receive all the segments that it should acknowledge. What can the host do to improve the reliability of this communication session?

○ A. Send a different source port number.

○ B. Restart the virtual circuit.

Your Answer
● C. Decrease the sequence number.

Correct
○ D. Decrease the window size.

> ✖ **You Answered Incorrectly.**
> A receiving host can control the transmitter by using flow control (TCP uses windowing by default). By decreasing the window size, the receiving host can slow down the transmitting host so the receiving host does not overflow its buffers.

Question 18 ⊟
(tb811633.NetPISG5E.c06.01)

The OSI model has seven layers and the DoD has four. At which layer does SMTP work in both models?

○ A. Network

○ B. Transport

○ C. Session

Your Answer
● D. Application

○ E. Internet

> ✔ **You Answered Correctly!**
> SMTP resides at the Application layer of the OSI and DoD models.

Question 19 ⊟
(tb811633.NetPISG5E.c03.13)

How many hosts on a half-duplex segment can talk at one time?

○ A. Zero

Your Answer
● B. One

○ C. Two

○ D. Unlimited

> ✔ **You Answered Correctly!**
> In half-duplex communication, a device can either send communication or receive communication, but it cannot do both at the same time.

Question 20 ⊟
(tb811633.NetPISG5E.c03.11)

Which of the following are fiber-optic connectors? (Choose three.)

☐ A. BNC

Your answer
☑ B. ST

☐ C. RJ-11

Your answer

☑ D. SC

Your answer

☑ E. LC

☐ F. RJ-45

✅ **You Answered Correctly!**
There are many different types of fiber-optic connectors. SC, ST, LC, and MT-RJ are some of the more typical connectors in use today.

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