Exam Report: 6.2.7 Pra	actice Questions	
Date: 3/16/2020 11:05:5 Time Spent: 11:18	66 pm	Candidate: Garsteck, Matthew Login: mGarsteck
Overall Performance	e	
Your Score: 100%		
		Passing Score: 80%
View results by: O	bjective Analysis 🌘 Inc	dividual Responses
Individual Response	S	
▼ Question 1:	<u>Correct</u>	
A customer is upgra devices is a light-pu		hes in their network. The signal source in these network
Which of the follow	ing network cabling option	ns is MOST likely being used in this upgrade?
Fiber option	-	
Twisted pa	air	
Copper		
Wireless		
Explanation		
The signal source us most often, it is an L		is a light pulses. Fiber optic cabling can be a laser, but
The signal source us	sed with wireless networks	is radio waves or infrared waves.
The signal in twisted	l pair cabling is an electric	signal and is not produced by an LED.
The signal in copper	cabling is an electric sign	al and is not produced by an LED.
References		
	2 Network Hardware m.xml Q_NET_DEVS_CC	DMPARE_CABLING_02]
▼ Question 2:	<u>Correct</u>	
Since IP addresses a	re difficult to remember, y	red to use their IP addresses when connecting to other hosts. ou want to implement a protocol on your network that allows IP address using a logical name.
Which of the follow	ing protocols would be the	BEST to implement?
Telnet		
○ ARP		
DNS		

Explanation

OHCP

Domain Name System (DNS) is an internet service that translates domain names into IP addresses. Because domain names are alphabetic, they're easier to remember. For example, the name www.mydomain.com would be identified with a specific IP address.

ARP is a protocol for finding the IP address from a known MAC address. DHCP is a protocol used to assign IP addresses to hosts. Telnet is a remote management utility.

References

TestOut PC Pro - 6.2 Network Hardware [e_nethdw_pp6.exam.xml Q_NET_DEVS_DNS]

▼ Question 3:

Correct

A technician determines that an older network hub that connects 24 workstations is performing poorly due to excessive network collisions.

Which of the following network devices would be the BEST replacement?

Patch	panel
1 atti	panci

Bridge

Router



Explanation

A switch maintains a table of MAC addresses by port and forwards network frames to only the port that matches the MAC address. This significantly reduces collisions.

A router manages IP traffic between networks.

A bridge separates two network segments and forwards frames from one segment to another.

A patch panel organizes network cables and connects inbound and outbound cables.

References

TestOut PC Pro - 6.2 Network Hardware

[e_nethdw_pp6.exam.xml Q_NET_DEVS_NETWORK_DEVICES_01]

▼ Question 4:

Correct

Which of the following LAN devices receives a signal on one port and forwards that signal only to the port where the destination device is connected?

	Router
--	--------

Network adapter



Switch



Explanation

A switch offers guaranteed bandwidth to each port, unlike a hub, which shares bandwidth among all the network ports.

References

TestOut PC Pro - 6.2 Network Hardware

[e_nethdw_pp6.exam.xml Q_NET_DEVS_NET_DEVICE_04]

Question 5:

Correct

Which of the following best describes how a switch functions?

It connects multiple segments of different architectures	. It translates	frames and	broadcasts t	hem
to all of its ports.				

(It connects multiple cable segments or devices and broadcasts frames to all of its	ports.

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It connects mul the appropriate	tiple segments of different architectures. It translates frames and forwards them to segment.
it connects mul	tiple cable segments or devices and forwards frames to the appropriate segment.
Explanation	
to the appropriate port. T	orts and can connect multiple segments or devices. The switch forwards frames hey function similarly to a hub except, instead of sending packets to all ports, ly to the destination computer's port.
References	
TestOut PC Pro - 6.2 Net [e_nethdw_pp6.exam.xm	work Hardware al Q_NET_DEVS_NET_DEVICE_05]
Question 6:	<u>Correct</u>
Which of the following he the frame or packet conte	ardware devices regenerates a signal out all connected ports without examining ents?
Bridge	
Hub	
Gateway	
Switch	
Router	
Explanation	
the packet contents. A sw	d received signals out all other ports. These devices do not examine the frame or vitch or a bridge use the MAC address in a frame for forwarding decisions. As in a packet for forwarding decisions.
References	
TestOut PC Pro - 6.2 Net [e_nethdw_pp6.exam.xm	work Hardware al Q_NET_DEVS_NET_DEVICE_06]
Question 7:	Correct

R

How do switches and bridges learn where devices are located on a network?

-	when a frame enters a port, the source MAC address is copied from the frame header.
	When a frame enters a port, the destination MAC address is copied from the frame header.
	When a frame enters a port, the destination IP address is copied from the frame header.
	When a frame enters a port, the source IP address is copied from the frame header.

Explanation

Bridges and switches learn addresses by copying the MAC address of the source device and placing it into the MAC address table. The port number the frame entered is also recorded in the table and associated with the source MAC address. The switch or the bridge cannot record the destination MAC address because it does not know the port that is used to reach the destination device. Bridges and switches operate at Layer 2 and do not use IP addresses (which exist at Layer 3).

References

TestOut PC Pro - 6.2 Network Hardware $[e_nethdw_pp6.exam.xml\ Q_NET_DEVS_NET_DEVICE_07]$

▼ Question 8:

Correct

You are the network technician for a small company. One of your responsibilities is to ensure that all new hardware is connected and functioning properly. You have several different types of connections that are used for various types of hardware. One of the types of cable available to you is an RJ45 cable.

Which of the following BEST	describes where this cable	would most likely be used?

	Modem connection
	Fax machine connection
	Telephone connection
→ ()	Voice over IP connection

Explanation

RJ45 ports are used to create Ethernet networks by connecting multiple computers and networking devices. RJ45 ports have eight connector pins. Voice over IP (VoIP). RJ11 ports are used by telephones and modems to send analog signals. RJ11 ports have four connector pins.

References

TestOut PC Pro - 6.2 Network Hardware [e_nethdw_pp6.exam.xml Q_NET_DEVS_RJ45RJ11]

Question 9:

Correct

Which of the following protocols carry phone calls over an IP-based network?

HTTP
RTSP
TCP

Explanation

→ O VoIP

Voice over IP (VoIP) is a method for carrying phone calls over an IP-based network. RTSP is used to stream multimedia content over IP networks. HyperText Transfer Protocol (HTTP) is used by web browsers and web servers to exchange files (such as web pages) through the World Wide Web and intranets. Transmission Control Protocol (TCP) is a protocol which guarantees that data arrives at a destination without errors. VoIP is usually implemented on top of UDP instead of TCP to reduce latency.

References

TestOut PC Pro - 6.2 Network Hardware [e_nethdw_pp6.exam.xml Q_NET_DEVS_VOIP_01]

▼ Question 10: Correct

Which network component connects a device to the transmission media and allows it to send and receive messages?

\Rightarrow	Network interface card
	Protocol
	Bridge
	Switch

Explanation

The network interface card (NIC) allows a device to send and receive messages over the transmission media.

	6.2 Network Hardware xam.xml Q_ADA_NIC_NET_DEVICE_01]
Question	Correct
11: Which of the follo	owing statements accurately describes how a modem works? (Select TWO.)
→ ✓ It modu	lates digital data from the PC into analog data and transmits it on a telephone network.
It comm	nunicates over a telephone network using digital signals.
It demo network	dulates analog PC data into digital data that can be transmitted through a telephone s.
It modu	lates digital data from a telephone network into analog data that a PC can use.
It transr	nits digital signals over ordinary telephone copper wiring at a rate up to 128 Kbps.
it demo	dulates analog data from a telephone network into digital PC data.
Explanation	
PC into analog tel	and for modulator/demodulator. Its job is to convert (or modulate) digital data from a lephone signals and transmit them through a telephone network. It also receives analog phone network and converts (or demodulates) it into digital PC data.
References	
	6.2 Network Hardware xam.xml Q_ADA_NIC_NET_DEVICE_02]
Question 12:	Correct
Which of the follo	owing is a valid MAC address?
→ ○ C0-34-I	FF-15-01-8E
34-9A-8	86-1G-B3-24
192.168	3.12.15
73-99-1	2-61-15
83-5A-5	5B-0B-31-55-F1
255.255	
Explanation	
MAC address has and the letters A t	ware address, is a unique identifier hard coded on every network adapter card. A valid is a total of 12 hexadecimal numbers. Hexadecimal numbers contain the numbers 0 to 9 to F. Valid values in a MAC address range anywhere from 00 to FF. Note that one of the e a valid MAC address except it uses a G value, which is beyond the range of a other.
References	
	6.2 Network Hardware xam.xml Q_ADA_NIC_NET_DEVICE_03]
Question 13:	<u>Correct</u>
An 8-port switch will the switch do	receives a frame on port number 1. The frame is addressed to an unknown device. What o?
Send the	e frame out all 8 ports.

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Send the f	rame out the destination port.
Send the f	rame out ports 2-8.
Orop the f	rame.
Explanation	
frame out all ports e	does not know the port that is used to reach the destination device, it will send the xcept for the port on which the frame was received. After the switch learns the port the destination device, it will send the frame out only that port.
References	
	2 Network Hardware m.xml Q_ADA_NIC_NET_DEVICE_08]
Question 14:	Correct
•	er with an onboard LAN adapter. The LAN adapter has failed, and you are unable to er to the network. What should you do?
slot.	work card using an AGP ne motherboard.
Add a net	work card using a PCI slot.

Explanation

Clear the CMOS settings.

In this case, you should install a network adapter in a PCI slot. Your computer would then use the new network adapter instead of the one integrated on the motherboard. While installing the new card, you should disable the onboard LAN adapter to prevent it from showing in Device Manager. Replacing the motherboard is too expensive when compared to installing a new expansion card. AGP slots are used for video cards, not network cards. Clearing the CMOS settings erases the configuration information, but does not fix the LAN adapter that is not functioning.

References

TestOut PC Pro - 6.2 Network Hardware [e_nethdw_pp6.exam.xml Q_ADA_NIC_PCI_NETWORK_ADAPTER]