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QUESTION 1 How does a switch differ from a hub? A. A switch does not induce any latency into the frame transfer time. B. A switch tracks MAC addresses of directly-connected devices. C. A switch operates at a lower, more efficient layer of the OSI model.

D. A switch decreases the number of broadcast domains. E. A switch decreases the number of collision domains. Answer: B
Explanation: Some of the features and functions of a switch include: A switch is essentially a fast, multi-port bridge, which can contain dozens of ports. Rather than creating two collision domains, each port creates its own collision domain. In a network of twenty nodes, twenty collision domains exist if each node is plugged into its own switch port. If an uplink port is included, one switch creates twenty-one single-node collision domains. A switch dynamically builds and maintains a Content-Addressable Memory (CAM) table, holding all of the necessary MAC information for each port. For a detailed description of how switches operate, and their key differences to hubs, see the reference link below.

<http://www.cisco.com/warp/public/473/lan-switch-cisco.shtml> QUESTION 2 What must occur before a workstation can exchange HTTP packets with a web server? A. A UDP connection must be established between the workstation and its default gateway. B. A UDP connection must be established between the workstation and the web server. C. A TCP connection must be established between the workstation and its default gateway. D. A TCP connection must be established between the workstation and the web server. E. An ICMP connection must be established between the workstation and its default gateway. F. An ICMP connection must be established between the workstation and the web server. Answer: D
Explanation: HTTP uses TCP port 80.

<http://pentestlab.wordpress.com/2012/03/05/common-tcpip-ports/> QUESTION 3 How does TCP differ from UDP? (Choose two.) A. TCP provides best effort delivery. B. TCP provides synchronized communication. C. TCP segments are essentially datagrams. D. TCP provides sequence numbering of packets. E. TCP uses broadcast delivery. Answer: B
Explanation: TCP differs from UDP in the following ways: TCP provides best effort delivery. TCP provides synchronized communication. TCP segments are essentially datagrams. TCP provides sequence numbering of packets. TCP uses broadcast delivery.

QUESTION 4 A workstation has just resolved a browser URL to the IP address of a server. What protocol will the workstation now use to determine the destination MAC address to be placed into frames directed toward the server? A. HTTP B. DNS C. DHCP D. RARP E. ARP Answer: E

QUESTION 5 Refer to the exhibit. Host A is sending a packet to Host B for the first time. What destination MAC address will Host A use in the ARP request? A. 192.168.0.1 B. 172.16.0.50 C. 00-17-94-61-18-b0 D. 00-19-d3-2d-c3-b2 E. ff-ff-ff-ff-ff-ff. 255.255.255.255 Answer: E
Explanation: For the initial communication, Host A will send a broadcast ARP (all F's) to determine the correct address to use to reach the destination.

QUESTION 6 The network manager has requested a 300-workstation expansion of the network. The workstations are to be installed in a single broadcast domain, but each workstation must have its own collision domain. The expansion is to be as cost-effective as possible while still meeting the requirements. Which three items will adequately fulfill the request? (Choose three.) A. one IP subnet with a mask of 255.255.254.0 B. two IP subnets with a mask of 255.255.255.0 C. seven 48-port hubs D. seven 48-port switches E. one router interface F. seven router interfaces Answer: A
Explanation: of 255.255.254.0 can absorb 510 hosts being 23 bits mask and also 7*48 port switches can handle this much hosts and router interface is required to be minimum to avoid unnecessary wastage hence the answers.

QUESTION 7 What are two common TCP applications? (Choose two.) A. TFTP B. SMTP C. SNMP D. FTP E. DNS Answer: B
Explanation: SMTP uses TCP port 25, while FTP uses TCP ports 20 and 21. <http://pentestlab.wordpress.com/2012/03/05/common-tcpip-ports/> QUESTION 8 Which method does a connected trunk port use to tag VLAN traffic? A. IEEE 802.1w B. IEEE 802.1DC. IEEE 802.1Q D. IEEE 802.1p Answer: C
Explanation: IEEE 802.1Q is the networking standard that supports virtual LANs (VLANs) on an Ethernet network. When a frame enters the VLAN-aware portion of the network (a trunk link, for example), a VLAN ID tag is added to represent the VLAN membership of that frame. The picture below shows how VLAN tag is added and removed while going through the network.

<http://www.cisco.com/c/en/us/support/docs/lan-switching/8021q/17056-741-4.html> QUESTION 9 Which two statements describe the operation of the CSMA/CD access method? (Choose two.) A. In a CSMA/CD collision domain, multiple stations can successfully transmit data simultaneously. B. In a CSMA/CD collision domain, stations must wait until the media is not in use before transmitting. C. The use of hubs to enlarge the size of collision domains is one way to improve the operation of the CSMA/CD access method. D. After a collision, the station that detected the collision has first priority to resend the lost data. E.

After a collision, all stations run a random backoff algorithm. When the backoff delay period has expired, all stations have equal priority to transmit data.F. After a collision, all stations involved run an identical backoff algorithm and then synchronize with each other prior to transmitting data. Answer: BEEExplanation:Ethernet networking uses Carrier Sense Multiple Access with Collision Detect (CSMA/CD), a protocol that helps devices share the bandwidth evenly without having two devices transmit at the same time on the network medium. CSMA/CD was created to overcome the problem of those collisions that occur when packets are transmitted simultaneously from different nodes. And trust me, good collision management is crucial, because when a node transmits in a CSMA/CD network, all the other nodes on the network receive and examine that transmission. Only bridges and routers can effectively prevent a transmission from propagating throughout the entire network! So, how does the CSMA/CD protocol work? Like this: when a host wants to transmit over the network, it first checks for the presence of a digital signal on the wire. If all is clear (no other host is transmitting), the host will then proceed with its transmission. But it doesn't stop there. The transmitting host constantly monitors the wire to make sure no other hosts begin transmitting. If the host detects another signal on the wire, it sends out an extended jam signal that causes all nodes on the segment to stop sending data (think, busy signal). The nodes respond to that jam signal by waiting a while before attempting to transmit again. Backoff algorithms determine when the colliding stations can retransmit. If collisions keep occurring after 15 tries, the nodes attempting to transmit will then time out.

QUESTION 10Refer to the exhibit. SwitchA receives the frame with the addressing shown in the exhibit. According to the command output also shown in the exhibit, how will SwitchA handle this frame? A. It will drop the frame.B. It will forward the frame out port Fa0/6 only.C. It will forward the frame out port Fa0/3 only.D. It will flood the frame out all ports.E. It will flood the frame out all ports except Fa0/3. Answer: EExplanation:When frame receives the frame, it checks the source address on MAC table if MAC address found in MAC table it tries to forward if not in MAC table adds the Address on MAC table. After checking the source address, it checks the destination address on MAC table, if MAC address found on MAC table it forwards to proper ports otherwise floods on all ports except the source port. QUESTION 11Refer to the exhibit. The exhibit is showing the topology and the MAC address table. Host A sends a data frame to host D. What will the switch do when it receives the frame from host A? A. The switch will add the source address and port to the MAC address table and forward the frame to host D.B. The switch will discard the frame and send an error message back to host A.C. The switch will flood the frame out of all ports except for port Fa0/3.D. The switch will add the destination address of the frame to the MAC address table and forward the frame to host D. Answer: AExplanation:When switch receives the data frame from the host not having the MAC address already on the MAC table, it will add the MAC address to source port on MAC address table and sends the data frame. QUESTION 12Refer to the exhibit. If the resume command is entered after the sequence that is shown in the exhibit, which router prompt will be displayed? A. Router1> B. Router1#C. Router2>D. Router2# Answer: CExplanation:The Ctrl-Shift-6 x command suspends the telnet session and hence the prompt will again be Router2> QUESTION 13Refer to the exhibit. Which default gateway address should be assigned to HostA? A. 192.168.1.1B. 192.168.1.65C. 192.168.1.66D. 192.168.1.129E. 10.1.1.1F. 10.1.1.2 Answer: BExplanation:It should be one less than the switch IP to which it is connected so it will be B. QUESTION 14Refer to the exhibit. A network has been planned as shown. Which three statements accurately describe the areas and devices in the network plan? (Choose three.) A. Network Device A is a switch.B. Network Device B is a switch.C. Network Device A is a hub.D. Network Device B is a hub. E. Area 1 contains a Layer 2 device.F. Area 2 contains a Layer 2 device. Answer: ADEExplanation:Switches use a separate collision domain for each port, so device A must be a switch. Hubs, however, place all ports in the same collision domain so device B is a hub. Switches reside in layer 2 while hubs are layer 1 devices. QUESTION 15Which two options will help to solve the problem of a network that is suffering a broadcast storm? (Choose two.) A. a bridgeB. a routerC. a hubD. a Layer 3 switchE. an access point Answer: BDEExplanation:Routers and layer 3 switches will not propagate broadcast traffic beyond the local segment, so the use of these devices is the best method for eliminating broadcast storms. QUESTION 16Refer to the exhibit. All devices attached to the network are shown. How many collision domains are present in this network? A. 2B. 3C. 6D. 9E. 15 Answer: EExplanation:A switch uses a separate collision domain for each port so there are a total of 9 for each device shown. In addition to this, the switch to switch connections (3) are a separate collision domain. Finally, we add the switch to router connections (2) and the router to router connection (1) for a total of 15. QUESTION 17What does a host on an Ethernet network do when it is creating a frame and it does not have the destination address? A. drops the frameB. sends out a Layer 3 broadcast messageC. sends a message to the router requesting the addressD. sends out an ARP request with the destination IP address Answer: D Explanation:Understanding this concept is prime for understanding that when switch receives the data frame from the host not having the MAC address already in the MAC table, it will add the MAC address to the source port on the MAC address table and sends the data frame. If the switch already has the MAC address in it's table for the destination, it will forward the frame directly to the destination port. If it was not already in it's MAC table, then they frame would have been flooded out all ports except for the port

that it came from. QUESTION 18 Refer to the exhibit. The ports that are shown are the only active ports on the switch. The MAC address table is shown in its entirety. The Ethernet frame that is shown arrives at the switch. What two operations will the switch perform when it receives this frame? (Choose two.) A. The MAC address of 0000.00aa.aaaa will be added to the MAC address table. B. The MAC address of 0000.00dd.dddd will be added to the MAC address table. C. The frame will be forwarded out port fa0/3 only. D. The frame will be forwarded out fa0/1, fa0/2, and fa0/3. E. The frame will be forwarded out all the active ports.

Answer: A, D
Explanation: If the switch already has the MAC address in its table for the destination, it will forward the frame directly to the destination port. If it was not already in its MAC table, then the frame would have been flooded out all ports except for the port that it came from. It will also add the MAC address of the source device to its MAC address table.

QUESTION 19 A switch has 48 ports and 4 VLANs. How many collision and broadcast domains exist on the switch (collision, broadcast)? A. 4, 48 B. 48, 4 C. 48, 1 D. 1, 48 E. 4, 1

Answer: B
Explanation: A switch uses a separate collision domain for each port, and each VLAN is a separate broadcast domain.

QUESTION 20 Which address type does a switch use to make selective forwarding decisions? A. source IP address B. destination IP address C. source and destination IP address D. source MAC address E. destination MAC address

Answer: E
Explanation: Switches analyze the destination MAC to make its forwarding decision since it is a layer 2 device. Routers use the destination IP address to make forwarding decisions.

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