Cisco

Exam Questions 100-105

ICND1 Cisco Interconnecting Cisco Networking Devices Part 1 (ICND1 v3.0)
NEW QUESTION 1
- (Topic 1)
What are two common TCP applications? (Choose two.)

A. TFTP
B. SMTP
C. SNMP
D. FTP
E. DNS

Answer: BD

Explanation:
SMTP uses TCP port 25, while FTP uses TCP ports 20 and 21.
Reference: http://pentestlab.wordpress.com/2012/03/05/common-tcpip-ports/

NEW QUESTION 2
- (Topic 2)
A switch receives a frame on one of its ports. There is no entry in the MAC address table for the destination MAC address. What will the switch do with the frame?

A. drop the frame
B. forward it out of all ports except the one that received it
C. forward it out of all ports
D. store it until it learns the correct port

Answer: B

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 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 they frame would have been flooded out all ports except for the port that it came from.

NEW QUESTION 3
- (Topic 3)
Which two statements describe characteristics of IPv6 unicast addressing? (Choose two)

A. Global addresses start with 2000::/3.
B. Link-local addresses start with FE00:/12.
C. Link-local addresses start with FF00::/10.
D. There is only one loopback address and it is ::1.
E. If a global address is assigned to an interface, then that is the only allowable address for the interface.

Answer: AD

NEW QUESTION 4
- (Topic 3)
Which one of the following IP addresses is the last valid host in the subnet using mask 255.255.255.224?

A. 192.168.2.63
B. 192.168.2.62
C. 192.168.2.61
D. 192.168.2.60
E. 192.168.2.32

Answer: B

Explanation:
With the 224 there are 8 networks with increments of 32
One of these is 32 33 62 63 where 63 is broadcast so 62 is last valid host out of given choices.

NEW QUESTION 5
- (Topic 3)
Which three statements are correct about RIP version 2? (Choose three)

A. It uses broadcast for its routing updates.
B. It supports authentication.
C. It is a classless routing protocol.
D. It has a lower default administrative distance than RIP version 1.
E. It has the same maximum hop count as RIP version 1.
F. It does not send the subnet mask any updates.

Answer: BCE

Explanation:
A and E are correct according to the theory of RIP. RIP version 1 updates are broadcasts, and RIP version 2 updates are multicast to 224.0.0.9. B is not correct.

RIP v1 is a classful routing protocol but RIP v2 is a classless routing protocol. C is correct. RIPv1 and RIPv2 have the same default administrative distance of 120. D is not correct. RIPv2 is a classless routing protocol so it does send the subnet mask in updates. F is not correct.

NEW QUESTION 6
- (Topic 3)
Refer to the exhibit.

![Exhibit]

The network is converged. After link-state advertisements are received from Router_A, what information will Router_E contain in its routing table for the subnets 208.149.23.64 and 208.149.23.96?

A. 208.149.23.64[110/13] via 190.173.23.10, 00:00:07, FastEthernet0/0
   208.149.23.96[110/13] via 190.173.23.10, 00:00:16, FastEthernet0/0

B. 208.149.23.64[110/1] via 190.172.23.10, 00:00:07, Serial1/0
   208.149.23.96[110/3] via 190.173.23.10, 00:00:16, FastEthernet0/0

C. 208.149.23.64[110/13] via 190.173.23.10, 00:00:07, Serial1/0
   208.149.23.96[110/13] via 190.173.23.10, 00:00:16, Serial1/0
   208.149.23.96[110/13] via 190.173.23.10, 00:00:16, FastEthernet0/0

D. 208.149.23.64[110/3] via 190.172.23.10, 00:00:07, Serial1/0
   208.149.23.96[110/3] via 190.173.23.10, 00:00:16, Serial1/0

Answer: A

Explanation:
Router_E learns two subnets subnets 208.149.23.64 and 208.149.23.96 via Router_A through FastEthernet interface. The interface cost is calculated with the formula 108 / Bandwidth. For FastEthernet it is 108 / 100 Mbps = 108 / 100,000,000 = 1. Therefore the cost is 12 (learned from Router_A) + 1 = 13 for both subnets.

The cost through T1 link is much higher than through T3 link (T1 cost = 108 / 1.544 Mbps = 64; T3 cost = 108 / 45 Mbps = 2) so surely OSPF will choose the path through T3 link. Router_E will choose the path from Router_A through FastEthernet0/0, not Serial1/0.

In fact, we can quickly eliminate answers B, C and D because they contain at least one subnet learned from Serial1/0 -> they are surely incorrect.

NEW QUESTION 7
- (Topic 4)
What happens when computers on a private network attempt to connect to the Internet through a Cisco router running PAT?

A. The router uses the same IP address but a different TCP source port number for each connection.
B. An IP address is assigned based on the priority of the computer requesting the connection.
C. The router selects an address from a pool of one-to-one address mappings held in the lookup table.
D. The router assigns a unique IP address from a pool of legally registered addresses for the duration of the connection.

Answer: A

Explanation:
Static PAT translations allow a specific UDP or TCP port on a global address to be translated to a specific port on a local address. That is, both the address and the port numbers are translated. Static PAT is the same as static NAT, except that it enables you to specify the protocol (TCP or UDP) and port for the real and mapped addresses. Static PAT enables you to identify the same mapped address across many different static statements, provided that the port is different for each statement. You cannot use the same mapped address for multiple static NAT statements.
Port Address Translation makes the PC connect to the Internet but using different TCP source port.

NEW QUESTION 8
- (Topic 5)
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Which two of the following are true regarding the configuration of RouterA? (Choose two.)

A. At least 5 simultaneous remote connections are possible
B. Only telnet protocol connections to RouterA are supported
C. Remote connections to RouterA using telnet will succeed
D. Console line connections will nevertime out due to inactivity
E. Since DHCP is not used on Fa0/1 there is not a need to use the NAT protocol

Answer: AC

NEW QUESTION 9
- (Exam Topic 8)
Which forwarding technology stores destination addresses in the cache?

A. MPLS
B. Cisco express forwarding
C. Process switching
D. Fast switching

Answer: B

NEW QUESTION 10
- (Exam Topic 8)
Which three commands must you enter to create a trunk that allows VLAN 20? (Choose three)
NEW QUESTION 11
- (Exam Topic 8)
Which three statements about DWDM are true? (Choose three)
A. It is used for long-distance and submarine cable systems
B. It can multiplex up to 256 channels on a single fiber
C. It supports both the SDH and SONET standards
D. Each channel can carry up to a 1-Gbps signal
E. It supports simplex communications over multiple strands of fiber

Answer: CDE

NEW QUESTION 12
- (Exam Topic 8)
What is the maximum number of bits that can be borrowed to create subnets if a Class B network address is being used?
A. 2
B. 6
C. 8
D. 14
E. 16

Answer: D

NEW QUESTION 13
- (Exam Topic 8)
What is the requirement of configuring 6to4 tunnelling on two routers?
A. Both ipv6 and ipv4 must be configured
B. Only IPv6
C. Only IPv4

Answer: A

NEW QUESTION 14
- (Exam Topic 8)
Which command you enter on a switch to display the ip address associated with connected devices?
A. Show cdp neighbors detail
B. Show cdp neighbor
C. Show cdp interface
D. Show cdp traffic

Answer: A

NEW QUESTION 15
- (Exam Topic 8)
If all OSPF routers in a single area are configured with the same priority value, what value does a router use for the OSPF router ID in the absence of a loopback interface?
A. the IP address of the first Fast Ethernet interface
B. the IP address of the console management interface
C. the highest IP address among its active interfaces
D. the lowest IP address among its active interfaces
E. the priority value until a loopback interface is configured

Answer: C

NEW QUESTION 16
- (Exam Topic 8)
Which definition of a host route is true?
A. A route that is manually configured
B. A route used when a destination route is missing.
C. A route to the exact /32 destination address
D. Dynamic route learned from the server.

Answer: B
NEW QUESTION 17
- (Exam Topic 8)
Assuming a subnet mask of 255.255.248.0, three of the following addresses are valid host addresses. Which are these addresses? (Choose three.)

A. 172.16.9.0
B. 172.16.8.0
C. 172.16.31.0
D. 172.16.20.0

Answer: ACD

NEW QUESTION 18
- (Exam Topic 8)
Which name describes an IPV6 host-enable tunneling technique that uses IPV4 UDP, does not require dedicated gateway tunnels, and can pass through existing IPV4 NAT gateways?

A. dual stack XX
B. dynamic
C. Teredo
D. Manual 6to4

Answer: C

NEW QUESTION 19
- (Exam Topic 9)
Which statement about port security on a trunk link is true?

A. It is not supported
B. It error-disables the port after 10 MAC addresses are statically configured
C. When it is enabled, it disables the native VLAN configuration
D. By default, it shuts down the port if it learns more than one MAC address.

Answer: B

NEW QUESTION 20
- (Exam Topic 10)
Drag and drop the cable types from the left onto the correct descriptions on the right

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Coax = constructed with an inner wire that consists of two conductors
Multimode fiber = Supports up to 9.92 Gpbs at a length of 2 km
Single-mode fiber = relies solely on twists in the wire to block EMI
STP = supports lengths of 10 km or more
UTP = supports up to 9.92 Gpbs at a length of 2 km

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NEW QUESTION 21

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