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<https://drive.google.com/drive/folders/0B75b5xYLjSSNeGdLM0gta2VVYm8?usp=sharing>QUESTION 147Refer to the exhibit. The

network shown in the exhibit has just been installed. Host B can access the Internet, but it is unable to ping host C. What is the problem with this configuration?A. Host B should be in VLAN 13.B. The address of host C is incorrect.C. The gateway for

host B is in a different subnet than the host is on.D. The switch port that sends VLAN 13 frames from the switch to the router is

shut down.E. The switch port connected to the router is incorrectly configured as an access port.**Answer: B**QUESTION 148Which

protocol provides a method of sharing VLAN configuration information between switches?A. VTPB. STPC. ISL D. 802.1Q

E. VLSM**Answer: A**Explanation:Understanding VLAN Trunk Protocol (VTP)

http://www.cisco.com/en/US/tech/tk389/tk689/technologies_tech_note09186a0080094c52.shtmlIntroductionVLAN Trunk

Protocol (VTP) reduces administration in a switched network. When you configure a new VLAN on one VTP server, the VLAN is

distributed through all switches in the domain. This reduces the need to configure the same VLAN everywhere. VTP is a

Cisco-proprietary protocol that is available on most of the Cisco Catalyst series products.QUESTION 149Refer to the exhibit. What

is the most appropriate summarization for these routes?A. 10.0.0.0 /21B. 10.0.0.0 /22C. 10.0.0.0 /23D. 10.0.0.0 /24**Answer: B**

QUESTION 150The network administrator has been asked to give reasons for moving from IPv4 to IPv6. What are two valid

reasons for adopting IPv6 over IPv4? (Choose two.)A. no broadcastB. change of source address in the IPv6 headerC. change of

destination address in the IPv6 headerD. Telnet access does not require a passwordE. autoconfigurationF. NAT**Answer: A E**

Explanation:Six Benefits Of IPv6<http://www.networkcomputing.com/ipv6/six-benefits-of-ipv6/230500009>With IPv6, everything

from appliances to automobiles can be interconnected. But an increased number of IT addresses isn't the only advantage of IPv6

over IPv4. In honor of World IPv6 Day, here are six more good reasons to make sure your hardware, software, and services support

IPv6.More Efficient Routing IPv6 reduces the size of routing tables and makes routing more efficient and hierarchical. IPv6 allows

ISPs to aggregate the prefixes of their customers' networks into a single prefix and announce this one prefix to the IPv6 Internet. In

addition, in IPv6 networks, fragmentation is handled by the source device, rather than the router, using a protocol for discovery of

the path's maximum transmission unit (MTU).More Efficient Packet ProcessingIPv6's simplified packet header makes packet

processing more efficient. Compared with IPv4, IPv6 contains no IP-level checksum, so the checksum does not need to be

recalculated at every router hop. Getting rid of the IP-level checksum was possible because most link-layer technologies already

contain checksum and error-control capabilities. In addition, most transport layers, which handle end-to-end connectivity, have a

checksum that enables error detection.Directed Data Flows IPv6 supports multicast rather than broadcast. Multicast allows

bandwidth-intensive packet flows (like multimedia streams) to be sent to multiple destinations simultaneously, saving network

bandwidth. Disinterested hosts no longer must process broadcast packets. In addition, the IPv6 header has a new field, named Flow

Label, that can identify packets belonging to the same flow. Simplified Network Configuration Address auto-configuration (address

assignment) is built in to IPv6. A router will send the prefix of the local link in its router advertisements. A host can generate its own

IP address by appending its link-layer (MAC) address, converted into Extended Universal Identifier (EUI) 64-bit format, to the 64

bits of the local link prefix.Support For New ServicesBy eliminating Network Address Translation (NAT), true end-to-end

connectivity at the IP layer is restored, enabling new and valuable services. Peer-to-peer networks are easier to create and maintain,

and services such as VoIP and Quality of Service (QoS) become more robust.Security IPsec, which provides confidentiality,

authentication and data integrity, is baked into in IPv6. Because of their potential to carry malware, IPv4 ICMP packets are often

blocked by corporate firewalls, but ICMPv6, the implementation of the Internet Control Message Protocol for IPv6, may be

permitted because IPsec can be applied to the ICMPv6 packets.QUESTION 151The network technician is planning to use the

255.255.255.224 subnet mask on the network. Which three valid IP addresses can the technician use for the hosts? (Choose three.)A.

172.22.243.127B. 172.22.243.190C. 172.22.243.191D. 192.168.1.160E. 10.17.64.34F. 10.16.33.98**Answer: B E F**

QUESTION 152Which of these represents an IPv6 link-local address?A. FE80::380e:611a:e14f:3d69B.

FE81::280f:512b:e14f:3d69C. FEFE:0345:5f1b::e14d:3d69D. FE08::280e:611:a:f14f:3d69**Answer: A**Explanation:

Understanding IPv6 Link Local AddressReference:

http://www.cisco.com/en/US/tech/tk872/technologies_configuration_example09186a0080ba1d07.shtmlThe purpose of this

document is to provide an understanding of IPv6 Link-local address in a network. A linklocal address is an IPv6 unicast

address that can be automatically configured on any interface using the linklocal prefix FE80::/10 (1111 1110 10) and the interface identifier in the modified EUI-64 format. Link-local addresses are not necessarily bound to the MAC address (configured in a EUI-64 format). Link-local addresses can also be manually configured in the FE80::/10 format using the ipv6 address link-local command.

QUESTION 153 Refer to the graphic and routing table for router R1. Based on the output of the R1# show ip route command and the information presented in the graphic, which of the following is a potential routing problem?
A. the use of summarization for discontinuous networks
B. the use of CIDR with a routing protocol that does not support it
C. the use of VLSM with a routing protocol that does not support it
D. the use of the no auto-summary command with a protocol that does not support summarization
E. the use of the ip route 0.0.0.0 0.0.0.0 command with a routing protocol that does not support it

Answer: A **QUESTION 154** What are three characteristics of the OSPF routing protocol? (Choose three.)
A. It converges quickly.
B. OSPF is a classful routing protocol.
C. It uses cost to determine the best route.
D. It uses the DUAL algorithm to determine the best route.
E. OSPF routers send the complete routing table to all directly attached routers.
F. OSPF routers discover neighbors before exchanging routing information.

Answer: ACF **QUESTION 155** An administrator is troubleshooting a problem between routers that are using different versions of RIP. Which two commands would provide information about which version of RIP was being sent and received on an interface? (Choose two.)
A. show ip protocols
B. show ip route rip
C. show interfaces
D. debug rip routing
E. debug ip rip

Answer: AE **QUESTION 156** Refer to the exhibit. You are connected to the router as user Mike. Which command allows you to see output from the OSPF debug command?
A. terminal monit
B. show debugging
C. show sessions
D. show ip ospf interface
Answer: A **QUESTION 157** Refer to the exhibit. Host A has tested connectivity to a remote network. What is the default gateway for host A?
A. 10.16.176.1
B. 192.168.1.6
C. 192.168.1.1
D. 172.16.182.1

Answer: D **!!!RECOMMEND!!!**
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