

New (100 Questions)

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Q&A

CCNA R&S 200-125

(100 Questions)

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Sections

1. (none)

QUESTION 1

Which two options are the best reasons to use an IPV4 private IP space? (Choose two)

- A. to enable intra-enterprise communication
- B. to conserve global address space
- C. to manage routing overhead
- D. to connect applications
- E. to implement NAT

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 2

Which three statements about DWDM are true? (Choose three)

- A. It allows a single strand of fiber to support bidirectional communications
- B. It is used for long-distance and submarine cable systems
- C. It can multiplex up to 256 channels on a single fiber
- D. It supports both the SDH and SONET standards
- E. Each channel can carry up to a 1-Gbps signal
- F. It supports simplex communications over multiple strands of fiber

Correct Answer: CDE

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

ref:

https://www.cisco.com/en/US/products/hw/optical/ps2011/products_data_sheet09186a008012a90_0.html

QUESTION 3

Which tunneling mechanism embeds an IPv4 address within an IPv6 address?

- A. Teredo
- B. 6to4
- C. 4to6
- D. GRE
- E. ISATAP

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

ref :<https://tools.ietf.org/html/rfc6052#section-2>

QUESTION 4

If two OSPF neighbors have formed complete adjacency and are exchanging link-state advertisements, which state have they reached?

- A. Exstart
- B. 2-Way
- C. FULL
- D. Exchange

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

E. ref

https://www.google.com/search?q=state+ospf&source=lnms&tbn=isch&sa=X&ved=0ahUKEwjg7ebXjtLVAhXJAsAKHXoyATQQ_AUIDCgD&biw=1536&bih=735#imgsrc=99-F38FQ0gZgVM:

QUESTION 5

Which three statements about IPv6 address fd14:920b:f83d:4079::/64 are true? (Choose three)

- A. The subnet ID is 14920bf83d
- B. The subnet ID is 4079
- C. The global ID is 14920bf83d
- D. The address is a link-local address
- E. The global ID is 4079
- F. The address is a unique local address

Correct Answer: BCF

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

ref https://www.ripe.net/participate/member-support/lir-basics/ipv6_reference_card.pdf

QUESTION 6

Which functionality does an SVI provide?

- A. OSI Layer 2 connectivity to switches
- B. remote switch administration
- C. traffic routing for VLANs
- D. OSI Layer 3 connectivity to switches

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 7

Which three commands are required to enable NTP authentication on a Cisco router? (Choose three)

- A. ntp peer
- B. ntp max-associations
- C. ntp authenticate
- D. ntp trusted-key
- E. ntp authentication-key
- F. ntp refclock

Correct Answer: CDE

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

ref : <http://blog.ine.com/2007/12/28/how-does-ntp-authentication-work/>

QUESTION 8

Which statement about DHCP snooping is true?

- A. it blocks traffic from DHCP servers on untrusted interfaces.
- B. it can be configured on switches and routers.
- C. it allows packets from untrusted ports if their source MAC address is found in the binding table.
- D. it uses DHCP Discover packets to identify DHCP servers.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 9

Which type of cable must you use to connect two device with mdi interfaces ?

- A. rolled
- B. crossover
- C. crossed
- D. straight through

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 10

which port security violation mode allows traffic from valid mac address to pass but block traffic from invalid mac address?

- A. protect
- B. shutdown
- C. shutdown vlan
- D. restrict

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 11

Which type of routing protocol operates by exchanging the entire routing information ?

- A. distance vector protocols
- B. link state protocols
- C. path vector protocols
- D. exterior gateway protocols

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 12

Which statements is true about Router on Stick.

- A. When a router have multiple subnets on a single physical link.
- B. When a router have single subnet on multiple physical links.
- C. when a router have multiple interface on single physical links.
- D. When a router have single interface on multiple physical links

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 13

Refer to the exhibit. Given the output from the show ip eigrp topology command, which router is the feasible successor?

```
router# show ip eigrp topology 10.0.0.5 255.255.255.255
```

IP-EIGRP topology entry for 10.0.0.5/32 State is Passive, Query

origin flag is 1, 1 Successor(s), FD is 41152000

- A. 10.1.0.1 (Serial0), from 10.1.0.1, Send flag is 0x0
Composite metric is (46152000/41640000), Route is Internal Vector metric:
Minimum bandwidth is 64 Kbit
Total delay is 45000 Microseconds
Reliability is 255/255
Load is 1/255
Minimum MTU is 1500
Hop count is 2

- B. 10.0.0.2 (Serial0.1), from 10.0.0.2, Send flag is 0x0 Composite metric is (53973248/128256), Route is Internal Vector Metric:
Minimum bandwidth is 48 Kbit
Total delay is 25000 Microseconds
Reliability is 255/255
Load is 1/255
Minimum MTU is 1500
Hop count is 1
- C. 10.1.0.3 (Serial0), from 10.1.0.3, Send flag is 0x0
Composite metric is (46866176/46354176), Route is Internal Vector metric:
Minimum bandwidth is 56 Kbit
Total delay is 45000 microseconds
Reliability is 255/255
Load is 1/255
Minimum MTU is 1500
Hop count is 2
- D. 10.1.1.1 (Serial0.1), from 10.1.1.1, Send flag is 0x0 Composite metric is (46763776/46251776), Route is External Vector metric:
Minimum bandwidth is 56 Kbit
Total delay is 41000 microseconds
Reliability is 255/255
Load is 1/255
Minimum MTU is 1500
Hop count is 2

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 14

Which IPsec security protocol should be used when confidentiality is required?

- A. MD5
- B. PSK
- C. AH
- D. ESP

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 15

Which IPv6 routing protocol uses multicast group FF02::9 to send updates?

- A. static
- B. RIPng
- C. OSPFv3
- D. IS-IS for IPv6

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 16

Which of the port is not part of STP protocol. (Question is not accurate but its sounds something like this)

- A. Listening
- B. Learning
- C. Forwarding
- D. Discarding

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 17

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.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 18

which statement about upgrading a cisco IOS device with TFTP server?

- A. the operation is performed in active mode
- B. the operation is performed in unencrypted format
- C. the operation is performed in passive mode
- D. the cisco IOS device must be on the same LAN as the TFTP server

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 19

Drag and Drop (Old Question)

vtty password -----remote access to device console

console password----access to console 0 line

access-group ----access to connected network or resources service-password encryption--viewing of password

enable secret-----access to privileged mod

- A.
- B.
- C.
- D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 20

What is a valid HSRP virtual MAC address?

- A. 0000.5E00.01A3
- B. 0007.B400.AE01
- C. 0000.0C07.AC15
- D. 0007.5E00.B301

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 21

which command do use we to see SNMP version

- A. show snmp pending
- B. show snmp engineID
- C. snmp-server something
- D. others

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

ref:

https://www.cisco.com/c/en/us/td/docs/ios/12_2/configfun/command/reference/ffun_r/frf014.htm l#wp1053304

QUESTION 22

Which command can you enter on a switch to determine the current SNMP security model?

- A. snmp-server contact

- B. show snmp pending
- C. show snmp group
- D. show snmp engineID

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

ref:

https://www.cisco.com/c/en/us/td/docs/ios/12_2/configfun/command/reference/ffun_r/frf014.htm#wp1053304

QUESTION 23

When troubleshooting Ethernet connectivity issues, how can you verify that an IP address is known to a router?

- A. Check whether the IP address is in the routing table
- B. Check whether an ACL is blocking the IP address
- C. Check whether the IP address is in the CAM table
- D. Check whether the IP address is in the ARP table

Correct Answer: D

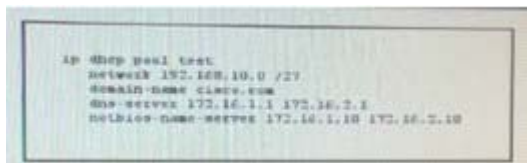
Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 24



After you apply the given configuration to a router, the DHCP clients behind the device cannot communicate with hosts outside of their subnet. Which action is most likely to correct the problem?

- A. Configure the dns server on the same subnet as the clients
- B. Activate the dhcp pool
- C. Correct the subnet mask
- D. configure the default gateway

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 25

Refer to the exhibit. What set of commands was configured on interface Fa0/3 to produce the given the output?

```

FastEthernet0/3:
Port state      = 1
Channel group   = 2
Port-channel    = Po2
Port index      = 0
Mode            = Passive
GC              = -
Load            = 0x00
Gcchang
Pseudo
Protoco

```

- A. interface FastEthernet 0/3
Channel-group 1 mode desirable
Switchport trunk encapsulation dot1q
Switchport mode trunk
- B. interface FastEthernet 0/3
Channel-group 2 mode passive
Switchport trunk encapsulation dot1q
Switchport mode trunk
- C. interface FastEthernet 0/3
Channel-group 2 mode on
Switchport trunk encapsulation dot1q
Switchport mode trunk
- D. interface FastEthernet 0/3
Channel-group 2 mode active
Switchport trunk encapsulation dot1q
Switchport mode trunk

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 26

While troubleshooting a DHCP client that is behaving erratically, you discover that the client has been assigned the same IP address as a printer that is a static IP address. Which option is the best way to resolve the problem?

- A. Configure a static route to the client.
- B. Assign the client the same IP address as the router.
- C. Move the client to another IP subnet
- D. Move the printer to another IP subnet.
- E. Reserve the printer IP address.

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 27

Refer to the exhibit:

```

R1
ipv6 unicast-routing

interface FastEthernet0/0
no ip address
ipv6 enable
ipv6 address 2001:DB8:12::1/64
ipv6 ospf 1 area 0

ipv6 router ospf 1
router-id 172.16.1.1

R2
ipv6 unicast-routing

interface FastEthernet0/0
no ip address
ipv6 enable
ipv6 address 2001:DB8:12::2/64
ipv6 ospf 1 area 1

ipv6 router ospf 1
router-id 172.16.2.2

```

after you apply the give configurations to R1 and R2 you notice that OSPFv3 fails to start

Which reason for the problem is most likely true ?

- A. The area numbers on R1 and R2 are mismatched
- B. The IPv6 network addresses on R1 and R2 are mismatched
- C. The autonomous system numbers on R1 and R2 are mismatched
- D. The router ids on R1 and R2 are mismatched

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 28

Which two statements about IPv6 address 2002:ab10:beef::/48 are true? (Choose two.)

- A. The embedded IPv4 address can be globally routed
- B. It is used for an ISATAP tunnel
- C. The embedded IPv4 address is an RFC 1918 address
- D. The MAC address 20:02:b0:10:be:ef is embedded into the IPv6 address
- E. It is used for a 6to4 tunnel

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29

While troubleshooting a connection problem on a computer, you determined that the computer can ping a specific web server but it cannot connect to TCP port 80 on that server. Which reason for the problem is most likely?

- A. A VLAN number is incorrect
- B. An ARP table entry is missing
- C. A route is missing
- D. An ACL is blocking the TCP port

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 30

Which two steps must you perform on each device that is configured for IPv4 routing before you implement OSPFv3? (Choose two.)

- A. configure an autonomous system number
- B. configure a loopback interface
- C. configure a router ID
- D. enable IPv6 on an interface
- E. enable IPv6 unicast routing

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 31

Which option is the main function of congestion management?

- A. discarding excess traffic
- B. queuing traffic based on priority
- C. classifying traffic
- D. providing long-term storage of buffered data

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 32

Which command must you enter to enable OSPFV2 in an IPV4 network?

- A. ip ospf hello-interval seconds
- B. router ospfv2 process-id
- C. router ospf value
- D. router ospf process-id

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 33

Which three statements about the features of SNMPv2 and SNMPv3 are true? (Choose three.)

- A. SNMPv3 enhanced SNMPv2 security features.
- B. SNMPv3 added the Inform protocol message to SNMP
- C. SNMPv2 added the Inform protocol message to SNMP
- D. SNMPv3 added the GetBulk protocol messages to SNMP
- E. SNMPv2 added the GetBulk protocol message to SNMP
- F. SNMPv2 added the GetNext protocol message to SNMP.

Correct Answer: ACE

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 34

Why do large OSPF networks use a hierarchical design? (choose three)

- A. to confine network instability to single areas of the network.
- B. to reduce the complexity of router configuration
- C. to speed up convergence!
- D. to lower costs by replacing routers with distribution layer switches1
- E. to decrease latency by increasing bandwidth
- F. to reduce routing overhead

Correct Answer: ACF

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 35

Assuming the default switch configuration which vlan range can be added modified and removed on a Cisco switch?

- A. 2 through 1001
- B. 1 through 1001
- C. 1 through 1002
- D. 2 through 1005

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 36

Which of the following is true about spanning-tree root-bridge election?

- A. It happens automatically. (something like that)
- B. Every root bridge has the same VLAN.
- C. Every VLAN has its own root bridge.
- D. i forgot the last

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

reference :

https://www.google.com/search?q=stp+vlan&source=lnms&tbm=isch&sa=X&ved=0ahUKEwjnzvrUnOHVAhWHUIAKHa_bBnMQ_AUICigB&biw=1536&bih=735#imgsrc=-IJEHv6yQBsdNM:

stp per vlan is a pvst

QUESTION 37

What is the most efficient subnet mask for a point to point ipv6 connection?

- A. /127
- B. /128
- C. /64
- D. /48
- E. /32

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

ref : <https://tools.ietf.org/html/rfc6164>

QUESTION 38

Which protocol does ipv6 use to discover other ipv6 nodes on the same segment?

- A. CLNS
- B. TCPv6
- C. NHRP
- D. NDP
- E. ARP

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

D

ref : <https://tools.ietf.org/html/rfc4861>

QUESTION 39

which technology supports multiple dynamic secure connections an unsecure transport network ?

- A. DMVPN
- B. VPN
- C. Site-to-site VPN
- D. client VPN

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 40

To enable router on a stick on a router subinterface, which two steps must you perform ? choose two

- A. configure full duplex and speed
- B. configure a default to route traffic between subinterfaces
- C. configure the subinterface with an ip address
- D. configure encapsulation dot1q
- E. configure an ip route to the vlan destination network

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 41

Which feature can you use to restrict SNMP queries to a specific OID tree?

- A. server group
- B. a community
- C. a view record
- D. an access group

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 42

Which two options are fields in an Ethernet frame? (choose two)

- A. frame check sequence
- B. header
- C. source IP address
- D. destination IP address
- E. type

Correct Answer: AE

Section: (none)

Explanation

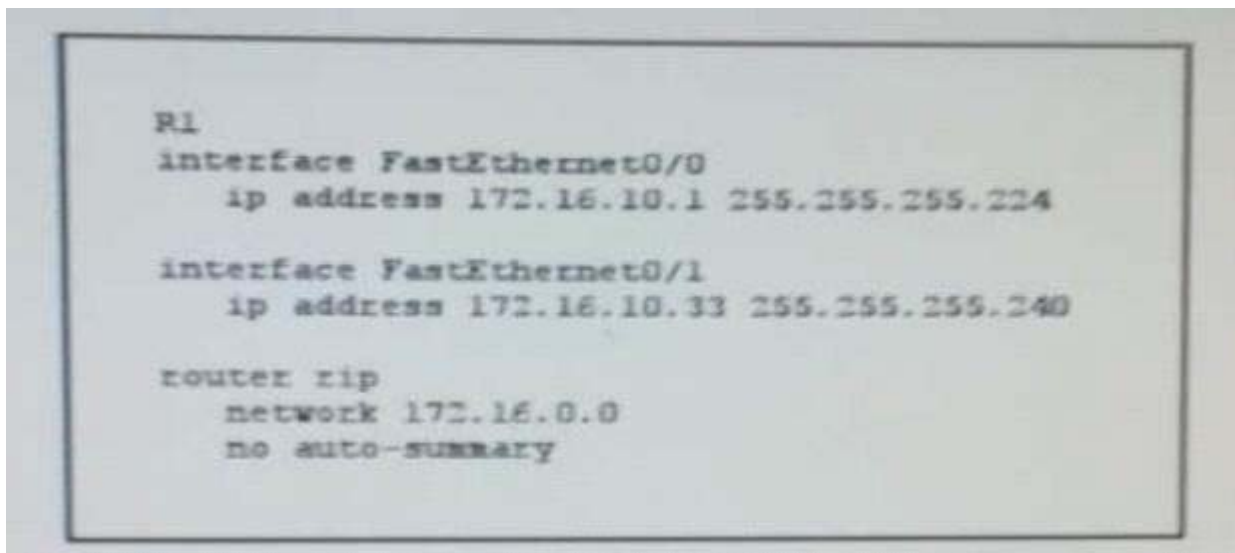
Explanation/Reference:

Explanation/Reference:

AE

QUESTION 43

Refer to the exhibit



After you apply the given configuration to R1, you determine that it is failing to advertise the 16.10.32/27 network. Which action most likely to correct the problem.

- A. Enable passive interface
- B. Enable RIPv2
- C. Enable manual summarization
- D. Enable auto summarization

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 44

Which type of secure MAC address must be configured manually?

- A. dynamic
- B. bia
- C. static
- D. sticky

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

C

QUESTION 45

What are types of IPv6 static routes? (Choose Three)

- A. Recursive Static routes
- B. Directly connected static routes
- C. Fully specified static routes
- D. Dynamically specified static routes
- E. injected static routes
- F. Redistributed static routes

Correct Answer: ABC

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 46

Which option is the industry-standard protocol for ether channel

- A. Cisco Discovery protocol
- B. PAGP
- C. LACP
- D. DTP

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

C

QUESTION 47

Router R1 has a static route that is configured to a destination network. A directly connected interface is configured with an IP address in the same destination network. Which statement about R1 is true?

- A. It refuses to advertise the dynamic route to other neighbors
- B. It sends a withdrawal signal to the neighboring router
- C. It disables the routing protocol
- D. It prefers the static route

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 48

Where does a switch maintain DHCP snooping information?

- A. in the CAM table
- B. in the VLAN database
- C. in the DHCP binding database
- D. in the MAC address table.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 49

When is a routing table entry identified as directly connected?

- A. when the local router is in use as the network default gateway
- B. when the network resides on a remote router that is physically connected to the local router
- C. when an interface on the router is configured with an IP address and enabled
- D. when the route is statically assigned to reach a specific network

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 50

Which command can you enter in a network switch configuration so that learned MAC addresses are saved in configuration as they connect?

- A. Switch(config-if)#Switch port-security
- B. Switch(config-if)#Switch port-security Mac-address sticky
- C. Switch(config-if)#Switch port-security maximum 10
- D. Switch(config-if)#Switch mode access

Correct Answer: B

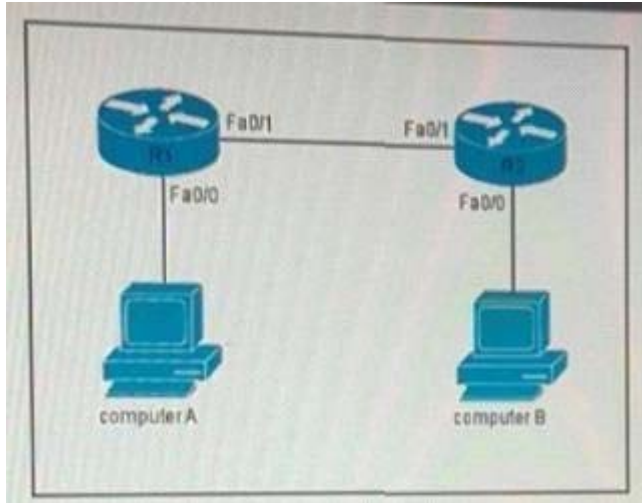
Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 51



If Computer A is sending traffic to computer B, which option is the source ip address when a packet leaves R1 on

interface F0/1?

- A. IP address of the R2 interface F0/1
- B. Ip address of computer B
- C. Ip address of R1 interface F0/1
- D. Ip address of Computer A

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 52

Which three options are the major components of a network virtualization architecture? (Choose three.)

- A. virtual network services
- B. authentication services
- C. network access control
- D. network resilience
- E. path isolation
- F. policy enforcement

Correct Answer: ACE

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 53

Which RPVST+ port state is excluded from all STP operations?

- A. learning
- B. forwarding
- C. blocking
- D. disabled

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 54

Which command can you enter to block HTTPS traffic from the whole class A private network range to a host?

- A. R1(config)#access-list 105 deny tcp 10.1.0.0 0.0.255.255 40.0.0.2 0.0.0.0 eq 443
- B. R1(config)#access-list 105 deny tcp 10.1.0.0 0.0.255.255 40.0.0.2 0.0.0.0 eq 53
- C. R1(config)#access-list 105 deny tcp 10.0.0.0 0.255.255.255 40.0.0.2 0.0.0.0 eq 53
- D. R1(config)#access-list 105 deny tcp 10.0.0.0 0.255.255.255 40.0.0.2 0.0.0.0 eq 443

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation/Reference:

QUESTION 55

For which two reasons was RFC 1918 address space defined (Choose two).

- A. to preserve public IPv4 address space
- B. to reduce the occurrence of overlapping IP addresses
- C. to preserve public IPv6 address space
- D. reduce the size of ISP routing tables
- E. to support the NAT protocol

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 56

Which two statements about RIPv2 are true? (Choose two)

- A. It must be manually enabled after RIP is configured as the routing protocol
- B. It uses multicast address 224.0.0.2 to share routing information between peers

- C. its default administrative distances 120
- D. It is a link-state routing protocol
- E. It is an EGP routing protocol

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 57

In which CLI configuration mode can you configure the hostname of a device?

- A. line mode
- B. interface mode
- C. global mode
- D. router mode

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 58

In which two circumstances are private IPv4 addresses appropriate? (Choose two)

- A. on internal hosts that stream data solely to external resources
- B. on hosts that communicates only with other internal hosts
- C. on the public-facing interface of a firewall
- D. on hosts that require minimal access to external resources
- E. to allow hosts inside an enterprise to communicate in both directions with hosts outside the enterprise

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 59

related to BPDU need to (Choose two)

- A. err-disabled when port receives BPDUs
- B. supported only on nontrunking access ports

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 60

Which two statements about eBGP neighbor relationships are true? (Choose two)

- A. The two devices must reside in different autonomous systems
- B. Neighbors must be specifically declared in the configuration of each device
- C. They can be created dynamically after the network statement is configured.
- D. The two devices must reside in the same autonomous system
- E. The two devices must have matching timer settings

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 61

Which two pieces of information can be shared with LLDP TLVs? (Choose two)

- A. device management address.
- B. device type
- C. spanning-tree topology
- D. routing configuration
- E. access-list configuration

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 62

Which two statements about UDP are true? (Choose two)

- A. It can transmit data at a rate higher than the path capacity
- B. It uses a three-way handshake to ensure that traffic is transmitted properly
- C. It guarantees packet delivery
- D. it includes protection against duplicate packets
- E. it can be used for multicast and broadcast traffic

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 63

Which two statements about access points are true? (Choose Two)

- A. They can provide access within enterprises and to the public.
- B. In most cases, they are physically connected to other network devices to provide network connectivity.
- C. They can protect a network from internal and external threats.

- D. Most access points provide Wi-Fi and Bluetooth connectivity.
- E. They must be hardwired to a modem.

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 64

For which two protocols can PortFast alleviate potential host startup is-sues? (Choose two.)

- A. DHCP
- B. DNS
- C. OSPF
- D. RIP
- E. CDP

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 65

What does it take for BGP to establish connection. (Choose 2) Given answers were

- A. Enable cdp,
- B. AS number on local router,
- C. AS number on remote router,
- D. IGP
- E. EGP

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Ref :

router bgp AS LOCAL

neighbor xxxx remote-as AS number on remote router

QUESTION 66

On which layer tcp/ip is ACL Apic-EM path

- A. Layer 1
- B. Layer 2
- C. Layer 3
- D. Layer 4

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 67

how is MPLS implemented (like this) :

- A. on LAN
- B. must be on redundant links
- C. can be on redundant or nonredundant links
- D. can't remember

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 68

Question about HTTP API :

- A. Rest
- B. OpenFlow,
- C. Opflex,
- D. OpenStack

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Drag and Drop :

QUESTION 69

Which cloud service is typically used to provide DNS and DHCP services to an enterprise?

- A. IaaS
- B. DaaS
- C. SaaS
- D. PaaS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 70

how to configure pppoe (choose two)

- A. configure dialer serial
- B. enable or configure pppoe in the interface

- C. ...
- D. ...
- E. ...
- F. ...

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 71

how router will advertise dhcpoffer to its other interface :

- A. dhcp smart relay
- B. ...
- C. ...
- D. ...

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 72

What two state that lacp forwarding (something like this)

- A. Passive
- B. Active
- C. Auto
- D. Desirable
- E. ...

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 73

Whats benefit of dual homed vs single homod :

- A. more tolerant when there is a problem()
- B. ...
- C. ...
- D. ...

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 74

Which is true about switch stacking something like that

- A. add or remove switch anytime
- B. when master is down other switch will take over.
- C. ...
- D. ...
- E. ...

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 75

When ebgp it used (like this)

- A. when people browse public internet
- B. when branch others cities communicates
- C. ...
- D. ...
- E. ...

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 76

What statements are true for multicast mac address directions?

- A. 01 00 xx xxxxxxxx
- B. 02 xx xxxxxxxx
- C. one to one
- D. one to many
- E. 01:00:5E:xx:xx:xx

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

Drag and Drop :

QUESTION 77

Drag and drop the characteristics of a cloud environment from the left onto the correct examples on the right.

multitenancy	One or more clients c v
on-demand	Resources can be add curre
resiliency	Tasks can be migr increase
scalability	Resources are dedicat
workload movement	Tasks and data resid migrated

- A.
- B.
- C.
- D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

Multitenancy

Scalability

Workload movement

On demand

Resiliency

Source : <https://www.cisco.com/c/en/us/about/press/internet-protocol-journal/back-issues/table- contents-45/123-cloud1.html>

QUESTION 78

Drag and Drop: Routing entries Match entries with definitions (route source, destination network, AD, metric,

next hop, outgoing int).

We don't know exactly definitions , but it also clear.

- A.
- B.
- C.
- D.

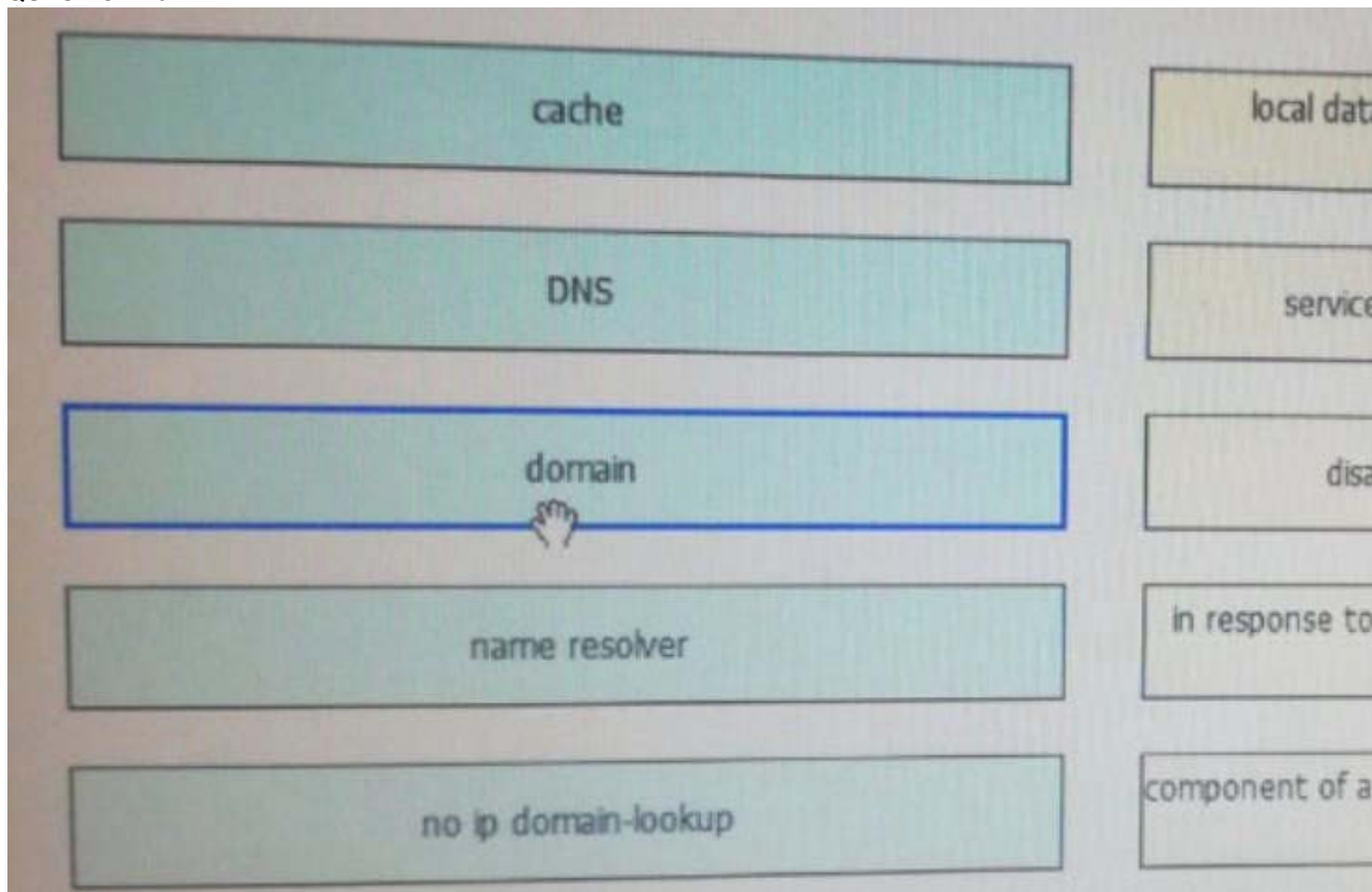
Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 79



- A.
- B.
- C.
- D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

-cache

-DNS

-No ip domain-lookup

-name resolver

-domain

QUESTION 80

	Dynamic Routing
Supports load balancing with no specific configuration.	
Supports floating routes.	
Allows the administrator to manage devices individually when needed.	
Able to select the best path in response to network changes.	
Provides better scalability in a large infrastructure.	
Provides granular control over routing.	

- A.
- B.
- C.
- D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

Dynamic Routing

Able to select the best path in response to network changes.

Supports load balancing with no specific configuration.

Provides better scalability in a large infrastructure.

Static Routing

Allows the administrator to manage devices individually when needed.

Supports floating routes.

Provides granular control over routing.

QUESTION 81

HTTPS	call to the APIC-EM API
JSON	data-structure format that passes p
OpenFlow	northbound AP
RBAC	southbound AP
REST	token-based security m

- A.
- B.
- C.
- D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

RBAC = Token Based Security Mechanism

JSON = Data structure that passes parameters for a call

OpenFlow = SouthBound API

REST = NorthBound API

HTTPS = Call to the APIC-EM library

Refe: <https://communities.cisco.com/docs/DOC-60530>

QUESTION 82

Difference between Radius and tacacs +

Radius : multi-vendors

UDP

RADIUS combines authentication and authorization

RADIUS encrypts only the password

Tacacs +: proprietary

TCP

Separate AAA

Encrypts the entire body

A.

B.

C.

D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 83

e.BGP and i.BGP

Source 9tut : <http://www.9tut.com/border-gateway-protocol-bgp-tutorial>

+ BGP speaker: a router running BGP

+ BGP peer or BGP neighbor: Any two routers that have formed a TCP connection to exchange BGP routing information (as BGP runs over TCP on port 179, not UDP)

+ Prefix: Maybe you learned the word "subnet". In BGP world, it is usually called "prefix" because BGP usually does not advertise small subnets. It advertises blocks of large subnets so "prefix" is often used instead

+ Internal BGP (iBGP): refers to the BGP neighbor relationship within the same AS. The iBGP neighbor does not have to be directly connected

+ External BGP (eBGP): refers to the BGP neighbor relationship between two peers belongs to different AS. It is recommended that eBGP should be directly connected. Never run an IGP between eBGP peers

A.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 84

IP sla schedule (1 command vs many options to choose the best interpretation)

Command: ip sla schedule 1 starttime now life forever

Ip sla schedule 1 : Number of the IP SLAs operation to schedule is 1

1 starttime now life forever: schedule the operation 1 to start immediately (now) and run indefinitely (forever)

- A.
- B.
- C.
- D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 85

RIPV1 vs RIPV2

RIPV1 :classful

Non support VLSM

Updates send in broadcast

Non support authentication

RIPV2 : classless

Support VLSM

Updates send in multicast

support authentication

- A.
- B.
- C.
- D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 86

vtty console....

accepts incoming connections over vty lines	
displays logging information during a terminal session	
provides local access to a device	
stores log messages externally	
stores log messages in RAM	

- A.
- B.
- C.
- D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

Accept incoming cnc over vty lines-----terminal

Display logging inf during a terminal session-----terminal monitor

Provides local access to a device-----console

Stores log msg externally -----syslog server logging

Stores log msg in RAM-----buffered logging

QUESTION 87

The steps of configuration of eigrp ipv6

en ----->>>>>step 1

conf t-->>>>>step 2

ipv6 router eigrp x----->>>>>>step 3

router id----->>>>>step 4

ipv6 eigrp x----->>>>>>>step 5

A.

B.

C.

D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 88

Match OSPF show commands (database, interface, neighbor, traffic, statistics) to their definitions.

Database : show ip ospf database command to display information about link-state advertisements (LSAs) advertisements

Interface : its clear

Neighbors : its clear

Traffic : global OSPF traffic statistics are displayed, including queue statistics for each OSPF process, statistics for each interface, and per-OSPF process statistics.

Statistics : display formation regarding SPF execution and calculation

A.

B.

C.

D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 89

Drag and drop the step in the process of upgrading the IOS on a cisco router

Step1----update the boot statement

Step2-----use FTP or TFTP to copy the new IOS to the device

Step3-----verify the available flash memory on the device

Step4-----verify the checksum of the new IOS version

Step5-----reboot and verify the IOS running version

- A.
- B.
- C.
- D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

Step4-----update the boot statement

Step2-----use FTP or TFTP to copy the new IOS to the device Step1----

----verify the available flash memory on the device Step3----verify the

checksum of the new IOS version Step5-----reboot and verify the IOS

running version

QUESTION 90

Physical bit

DATA LINK Frame

NETWORK packet

transport segments

session Data Stream

- A.
- B.
- C.
- D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 91

Drag the "show" commands on the left to their proper locations on the right.

show ip eigrp traffic	show EIGRP confirm what is
show ip route eigrp	show informati EIGRP / Verify sh
show ip eigrp topology	show the
show ip eigrp interface	Displays EIGR
show ip eigrp neighbors	shows the ro routing proces sho

Answer:

- + **show ip route eigrp**: show EIGRP routing tables in routing table / confirm what is actually b
- + **show ip eigrp interface**: show information about interface configured for EIGRP / Verify the
show what being used
- + **show ip eigrp traffic**: show the number of EIGRP packets sent and received
- + **show ip eigrp neighbors**: Displays the neighbor discovered by EIGRP. Show what is learned
- + **show ip eigrp topology**: shows the routes known to a router's EIGRP routing process. Conf

- A.
- B.
- C.
- D.

Correct Answer:

Section: (none)

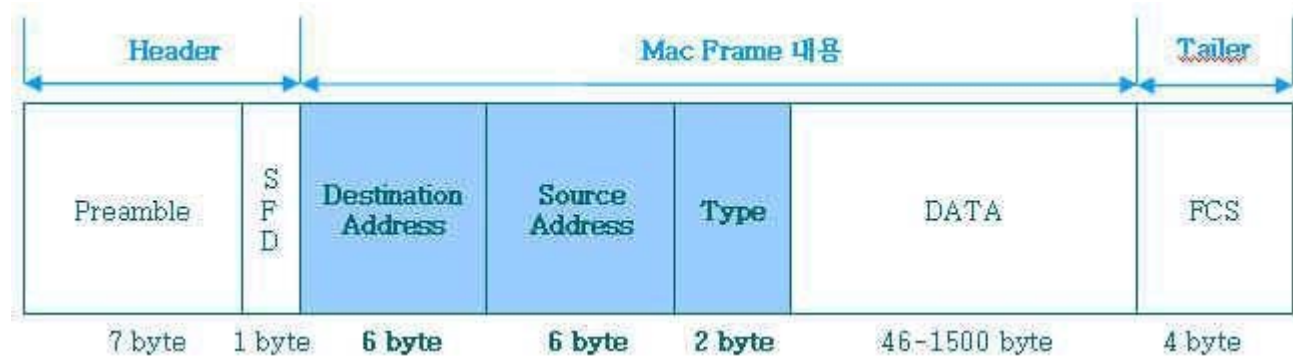
Explanation

Explanation/Reference:

QUESTION 92

Drag and Drop: Ethernet frame On the left side: preamble, FSD, source mac, dest mac, data, type. On the right the numbers in order 1 7

You must know the order of elements



- A.
- B.
- C.
- D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 93

statement about the AAA from the left on to the matching authentication-server

Drag from (left side)

- A Cisco-proprietary protocol
- A vendor-agnostic protocol
- Combines authentication and authorization
- configures privileges at the per-user or per-group level
- Enforces command authorization
- does not provide two-way authentication

- A.
- B.
- C.
- D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

Drag here (Right side)

TACACS+

- A Cisco-proprietary protocol
- configures privileges at the per-user or per-group level
- Enforces command authorization

RADIUS

- A Vendor agnostic
- Combines authentication and authorization
- Does not provide two-way authentication

Source:

<https://www.safaribooksonline.com/library/view/ccna-security-210-260/9780134077857/graphics/d03tab02.jpg>

Radius can only perform 1 way authentication (a server authenticates a client).

Source: "Understanding Radius"

https://www.cisco.com/c/en/us/td/docs/routers/access/wireless/software/guide/SecurityRadiusTacacs_1.pdf

Answer:

QUESTION 94

Drop the logging-related commands to the correct descriptions.

Drop From (Left side)

- link monitor
- link restart
- logging buffered filtered
- logging cns-events
- logging console guaranteed

Drag here (Right side)

- enables xml-format message logging
- may overload the logging system and lead to failure of time-critical ios functions
- sets the sampling interval
- specifies Tcl script for monitoring the system

-when configured, allows a link to be shut down when the maximum error threshold is exceeded

- A.
- B.
- C.
- D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

logging cns events -enables xml-format message logging logging console guaranteed -may overload the logging system and lead to failure of time-critical ios functions

logging buffered filtered -specifies Tcl script for monitoring the system

Link monitor - sets the sampling interval

Link restart - when configured, allows a link to be shut down when the maximum error threshold is exceeded

QUESTION 95

To arrange in order creation of gre tunnel

Drag from (left side)

- create tunnel interface,
- add source and destination on tunnel interface
- specify carrier protocol
- specify passenger protocol
- specify crypto protocol
- create point-to-point link between tunnel source and destination

Drag here (Right side)

Step 1

Step 2

Step 3

Step 4

- A.
- B.
- C.
- D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

Step 1 : create tunnel interface.

Step 2 : specify carrier protocol (like tunnel GRE).

Step 3 : specify passenger protocol (ipv4 6).

Step 4 : add source and destination on tunnel interface.

Reference :

The following steps list the basic GRE tunnel configuration for this scenario:

Create a tunnel interface

Identify the carrier protocol (GRE)

Identify the passenger protocol (IPv4, IPv6)

Identify the source/destination of the delivery header

<https://learningnetwork.cisco.com/blogs/vip-perspectives/2017/03/14/anatomy-of-gre-tunnels>

QUESTION 96

Left side

Snmp

Sntp

Dhcp

Ssh

Ftp

Tftp

Right side

Tcp

Udp

A.

B.

C.

D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

Tcp : ssh smtp -ftp

Udp : dhcp -snmp- tftp

QUESTION 97

Bdpu Guard : Disables port when it receives a BDPU

Bdpu Filter: Drops BDPU messages when received

Portfast: Transition to forward state on edge

Uplink fast: Faster transition on non edge ports

Root Guard: Prevents a root port to become a blocking port if necessary

A.

B.

C.

D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:**QUESTION 98**

Simulation

1- Assign the port in the correct vlan

Interface fx/y

Switchport mode access

Switchport access vlan X

end

2- Ensure the Trunking between switches

Interface fx/y

switchport trunk encapsulation dot1q

Switchport mode trunk

3- There is a native vlan mismatch and you resolve a problem Interface fx/y

switchport trunk encapsulation dot1q

Switchport mode trunk

Switchport trunk native vlan Y

- A.
- B.
- C.
- D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference:

QUESTION 99

gre eigrp

Eigrp gre tunnel topology looks same as 9tut but the questions were completely different

Total 4 questions

I will mention Ans only

1.Acl blocking traffic on interface between routers 2 and 3

2.The network was not advertised in eigrp

3.Two routers couldn't establish adjacency because of acl

4.Another two routers couldn't establish adjacency because of wrong ip configuration on interface between them

- A.
- B.
- C.
- D.

Correct Answer:

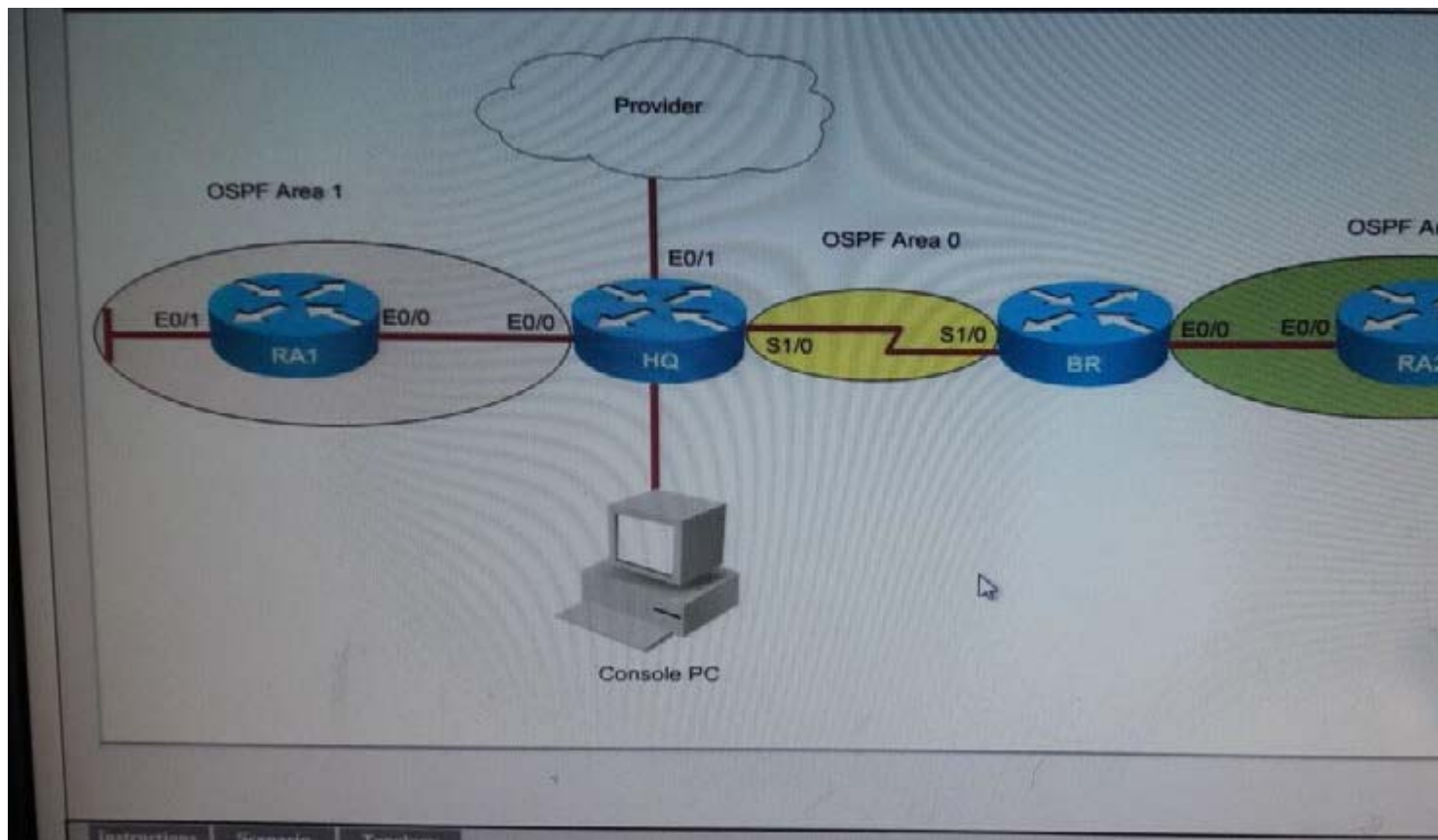
Section: (none)

Explanation

Explanation/Reference:

QUESTION 100

OSPF simulation



You work as a network engineer for SASCOM Network Ltd company. On router HQ, a provider link has been enabled and you must configure an IPv6 default route on HQ and make sure that this route is advertised in the OSPF process. Also, you must troubleshoot another issue. The router HQ is not forming an IPv6 OSPF neighbor relationship with router BR.

Topology Details

Two routers HQ and BR are connected via serial links.

Router HQ has interface Ethernet0/1 connected to the provider cloud and interface Ethernet 0/0 connected to the serial link.

Router BR has interface Ethernet 0/0 connected to another router RA2.

IPv6 Routing Details

All routers are running IPv6 OSPF routing with process ID number 100. Refer to the topology diagram for information about the OSPF areas. The Loopback 0 IPv4 address is the OSPF router ID on each router.

Configuration requirements

- Configure IPv6 default route on router HQ with default gateway as 2001:DB8:B:B1B2::1.
- Verify by pinging provider test IPv6 address 2001:DB8:0:1111::1 after configuring default route on HQ.
- Make sure that the default route is advertised in IPv6 OSPF on router HQ. This default route should be advertised only when HQ has a default route in its routing table.
- Router HQ is not forming IPv6 OSPF neighbor with BR. You must troubleshoot and resolve this issue.

Special Note: To gain the maximum number of points, you must complete the necessary configurations and troubleshoot the IPv6 OSPF neighbor issue with router BR. IPv6 OSPFv3 must be configured without using address families. Do not change the IPv6 OSPF process ID.

While we don't have any information about running configuration, we should be able to

1-configure default route on router HQ : ipv6 unicast-routing

ipv6 route ::/0 2001:DB8:B:B1B2::1

2-advertise this route under ospfv3

ipv6 router ospf 100

Default-information originate

3-fix adjacency problem if an area mismatch exists

We need to enter in s1/0

ipv6 ospf 100 area 0

- A.
- B.
- C.
- D.

Correct Answer:

Section: (none)

Explanation

Explanation/Reference: