

4A0-100 Dumps

Alcatel-Lucent Scalable IP Networks

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NEW QUESTION 1

Which of the following best describes the function of an ARP cache within the same subnet?

- A. Used by IP to map an unknown IP address to the known hardware address of the distant host
- B. Adds only an IP address entry for an unknown device on the same subnet
- C. Transmits ICMP messages to multiple hosts with unknown IP addresses
- D. Resolves the MAC address of a host device given its IP address

Answer: D

NEW QUESTION 2

Which of the following is true of Ethernet half-duplex transmission?

- A. Half-duplex transmission is less efficient because the frame MTU is smaller
- B. Half-duplex transmission is only 30-40% efficient because of collision
- C. Ethernet switches support half-duplex transmission only
- D. All of the above

Answer: B

NEW QUESTION 3

Which of the following IP header fields contains information that indicates whether routers are allowed to fragment a packet?

- A. Header checksum
- B. Fragmentation offset
- C. Flag
- D. Identification

Answer: C

NEW QUESTION 4

Given the Mac Address 00-20-60-ce-2b:28, which part is the Organizationally Unique Identifier (OUI)?

- A. 2b:28
- B. 00-20
- C. ce-2b:28
- D. 00-20-60

Answer: D

NEW QUESTION 5

Which network was created to replace ARPANET?

- A. INWG
- B. ALOHANET
- C. IETF
- D. NSFNET

Answer: D

NEW QUESTION 6

Using Q-in-Q Virtual Local Area Network (VLAN) stacking, how does a carrier differentiate one customer's traffic from that of another?

- A. The provider edge (PE) switch adds an additional field called a PE tag to the customer's Layer 2 data
- B. The PE switch replaces the customer's VLAN tag with a carrier-assigned tag
- C. The PE switch adds a second VLAN tag to identify the customer's traffic on the carrier's network
- D. The PE switch assigns a customer-specific priority label to the customer's traffic

Answer: C

NEW QUESTION 7

You are working from a particular Command Line Interface (CLI) context, and want to see the commands available from your current context. What command can you issue to view this information?

- A. view tree
- B. tree
- C. info detail
- D. info

Answer: B

NEW QUESTION 8

What happens immediately after an Ethernet switch receives an Ethernet frame?

- A. It records the destination MAC address and the interface on which it arrive
- B. It records the source MAC address and the interface on which it arrive
- C. It floods the frame out of all its interfaces except the interface on which the frame arrive
- D. It transmits the frame out of the appropriate interfac

Answer: B

NEW QUESTION 9

What is the purpose of the Data Link Layer in the OSI model?

- A. The Data Link Layer is responsible for encapsulating the packet into a frame for transmission on the transmission medi
- B. The Data Link Layer is responsible for encapsulating the packet into an IP header and routing the packe
- C. The Data Link Layer is responsible for formatting the packet for applications such as JPEG forma
- D. The Data Link Layer is responsible for timing of the signals on the transmission media

Answer: A

NEW QUESTION 10

What is the basic unit of framing in SDH and the bit rate for its transmission?

- A. STM-1 with a bit rate of 1.544 Mbit/s
- B. STM-1 with a bit rate of 2.048 Mbit/s
- C. STM-1 with a bit rate of 51.84 Mbit/s
- D. STM-1 with a bit rate of 155.52 Mbit/s

Answer: D

NEW QUESTION 10

As described by the CSMA/CD algorithm, what is the first thing to happen when Host A and Host B begin transmitting data at the same time?

- A. Host A and B will generate a jam signa
- B. Listening hosts will request retransmissio
- C. Host A or B will retry the transmissio
- D. A back-off timer is started by Host A or

Answer: A

NEW QUESTION 14

What is the purpose of the broadcast address?

- A. Provides an address that refers to all the devices in a given networ
- B. Provides an address to refer to a specific group of devices in a given networ
- C. Provides an address to refer to a group of devices having the same IP addresses in different Layer 2 network
- D. Provides an address to refer to a single device on a given networ

Answer: A

NEW QUESTION 16

The TCP/IP and OSI models of protocol aresimilar in that they both have:

- A. An application and session laye
- B. A network layer that provides a universal and consistent forwarding servic
- C. A transport layer with two protocol
- D. An applications services layer with similar layering and service definition

Answer: C

NEW QUESTION 19

Which compact flash on a Control/Switch processor of an Alcatel-Lucent 7750 router stores the runtime image and running configuration?

- A. CF 1
- B. CF 2
- C. CF 3
- D. Both A and B

Answer: C

NEW QUESTION 21

Which of the following statements is TRUE of Layer 3 addressing?

- A. Internet devices on the same network can have the same Layer 3 address in different broadcast domain
- B. Every Host device must have a unique Layer 3 address in order to access the Interne
- C. Internet devices need unique Layer 3 addresses to communicate directly with upper layer
- D. A router must have only one address to allow it to be uniquely identifie

Answer: B

NEW QUESTION 22

Given a network address of 116.14.0.0, which of the following is a valid host address when using the subnet mask 255.255.255.240?

- A. 116.14.17.16
- B. 116.14.17.31
- C. 116.14.17.192
- D. 116.14.17.189

Answer: D

NEW QUESTION 25

What is the sequence of events for a client to receive an IP address from the server in the DHCP?

- A. Discover, offer, request, acknowledgemen
- B. Request, offer, discover, acknowledgemen
- C. Discover, request, offer, acknowledgemen
- D. Request, acknowledgement, discover, offe

Answer: A

NEW QUESTION 29

How many DS-3 frames can be transported in an OC-3 frame?

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

Answer: C

NEW QUESTION 31

Which of the following is a characteristic of ATM?

- A. Application data is transported in 53-byte cell
- B. ATM circuits are identified by a VPI/VCI valu
- C. Provides enhanced QoS support with 5 classes of servic
- D. Ideal for multiple services on the same physical lin
- E. All of the abov
- F. None of the above

Answer: E

NEW QUESTION 35

A typical Alcatel-Lucent 7750 SR Media Dependent Adapter (MDA) interfaces with:

- A. A Small Form-Factor Pluggable (SFP) modul
- B. The Central Processing Unit (CPU).
- C. The Control Plan
- D. The Switch Fabri

Answer: A

NEW QUESTION 37

How do protocols such as ATM and Frame-Relay support differentiating multiple customers or traffic types on the same physical wire?

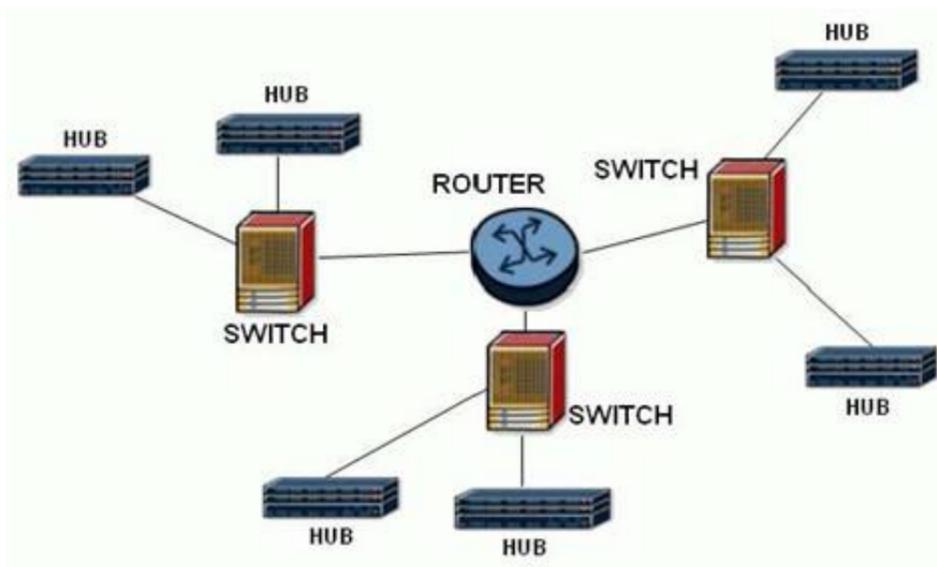
- A. ATM and Frame-Relay are circuit switched protocols and use Virtual Circuits to create logical separation of traffi
- B. ATM and Frame-Relay are point-to-point protocols and do not support different customers or traffic type on the same physical wir
- C. ATM and Frame-Relay are circuit switched protocols and use VLAN's to create logical separation of traffi
- D. ATM and Frame-Relay are circuit switched protocols and use IP Header information to create logical separation of traffi

Answer: A

NEW QUESTION 38

Click the Exhibit Button below:

An Ethernet Local Area Network (LAN) consists of the components shown in the diagram below:



How many broadcast and collision domains are on this LAN?

- A. 9 broadcast domains, 3 collision domain
- B. 3 broadcast domains, 3 collision domain
- C. 3 broadcast domains, 9 collision domain
- D. 1 broadcast domain, 9 collision domain

Answer: C

NEW QUESTION 40

What problems was Spanning Tree Protocol (STP) primarily designed to solve? (Choose two):

- A. Providing path redundanc
- B. Preventing loop
- C. Handling collision
- D. Allowing flooding of multicast traffi

Answer: AB

NEW QUESTION 42

Which of the following is a private IP network address reserved by the IANA?

- A. 172.30.0.0/16
- B. 192.100.0.0/24
- C. 172.0.0.0/16
- D. 169.254.0.0/16
- E. 11.0.0.0/8

Answer: A

NEW QUESTION 46

What information is used to separate VLANs on a VLAN trunk that connects multiple VLANs?

- A. VLAN ta
- B. IP Heade
- C. FC
- D. Priority Valu

Answer: A

NEW QUESTION 48

Which of the following are examples of Time Division Multiplexing (Choose two)?

- A. Etherne
- B. Token-Rin
- C. SONET/SD
- D. E1 carrie
- E. PPP

Answer: CD

NEW QUESTION 49

Which technologies can be used with Ethernet switches to achieve redundancy? (Choose two)

- A. LAG
- B. OSPF
- C. RIP
- D. STP

Answer: AD

NEW QUESTION 51

Which of the following is a characteristic of Port Address Translation?

- A. Resolves a Mac address given a specific IP address
- B. Allows a single public IP address to represent multiple private IP addresses simultaneously
- C. Maps a private address to a well known port number
- D. Provides a one to one mapping from a private to a public address

Answer: B

NEW QUESTION 55

When entering a command on the Alcatel-Lucent 7750 SR from the Command Line Interface (CLI), what would you use to list all the options for the command?

- A. ?
- B. tab character
- C. space character
- D. info

Answer: A

NEW QUESTION 59

Public IP address spaces are distributed by which of the following organizations?

- A. Network Solutions INC
- B. IANA
- C. IETF
- D. ITU-T
- E. IEEE

Answer: B

NEW QUESTION 60

Which of the following command lines would be found in a list of commands designed to permit only certain type of traffic from exiting router RTR-A to router RTR-B?

- A. RTR-A>config>router>if>ingress# filter ip 1
- B. RTR-B>config>router>if>ingress# filter ip 1
- C. RTR-B>config>router>if>egress# filter ip 1
- D. RTR-A>config>router>if>egress# filter ip 1

Answer: D

NEW QUESTION 62

What is the behavior of a typical Ethernet switch when it receives a frame with an unknown destination MAC address? (Choose two)

- A. The switch floods the frame out of all ports except the port on which it was received
- B. The switch looks in its FDB
- C. If the source address is unknown it discards the frame
- D. The switch looks in its FDB
- E. If the destination address is known it forwards the frame out the appropriate interface
- F. The switch looks in its FDB
- G. If the destination address is unknown it floods the frame out all ports except the port on which it was received
- H. The switch looks in its FDB
- I. If the destination address is unknown it discards the frame

Answer: CD

NEW QUESTION 67

What is the meaning of carrier sense in the CSMA/CD algorithm?

- A. The host will retransmit the frame if it detects a collision during transmission
- B. The host is able to detect the transmission speed of the Ethernet switch port to which the host is connected
- C. The host will only transmit data when it detects that no other devices are transmitting
- D. The host will only transmit upon a timer expires
- E. The host will only transmit when it receives the token

Answer: C

NEW QUESTION 70

Hosts in the same IP network share which common address feature?

- A. Same host number
- B. Same IP address
- C. First two bits of the IP address are set to 01.
- D. Same network prefix

Answer: D

NEW QUESTION 73

Which of the following is a characteristic of a subnet created with a /31 prefix?

- A. There is no broadcast address on the network
- B. The address can only be used as a loopback address
- C. This specifies a single host address
- D. A /31 prefix is not supported on the SR and ESS platform

Answer: A

NEW QUESTION 75

When a device in an IP network receives an echo request message that is destined for itself, it then:

- A. Estimates the round trip time
- B. Generates an echo reply
- C. Calculates the data loss statistic
- D. Verifies the data field of the message

Answer: B

NEW QUESTION 80

What is the function of a Routing Table Manager (RTM)?

- A. To find the best path to the destination network and install it in the routing table - based on the metrics of the routing protocol
- B. To provide a CLI interface that allows the operator to configure the dynamic routing protocol on the router
- C. To choose the route with the lowest preference and install it in the routing table - based on the routing protocol preference value
- D. To provide a CLI interface that allows the network operator to install static routes in the routing table

Answer: C

NEW QUESTION 81

Which statement best describes an SDP?

- A. Service Delivery Points are defined on the service provider network side and used to bind the service to an MPLS transport tunnel
- B. Many services can be bound to a single SD
- C. Service Delivery Points are defined on the service provider access side and used to bind the connection of the service to CE device
- D. Many services can be bound to a single SD
- E. Service Delivery Points are defined on the service provider network side and used to bind the service to an MPLS transport tunnel
- F. Only one service can be bound to a single SD
- G. Service Delivery Points are defined on the service provider access side and used to bind the service to CE device
- H. Only one service can be bound to a single SD

Answer: A

NEW QUESTION 82

Which of the following are accurate statements about the PE device in a service provider's MPLS network? (Select three)

- A. A PE router only connects to CE device
- B. A PE router only connects to P router
- C. A PE router connects to at least one P router
- D. A PE router connects to at least one CE device
- E. PE routers support many different interface types connecting to CE device
- F. PE routers only support Ethernet interfaces connecting to the CE

Answer: CDE

NEW QUESTION 84

Which field in the Routing Information Base (RIB) determines the direction frames will egress the node?

- A. Preference
- B. Metric
- C. Destination prefix
- D. Next-hop
- E. Cost

Answer: D

NEW QUESTION 87

Which of the following SAP types can be associated to a VPWS? (Choose 3)

- A. Ethernet
- B. ATM
- C. Token Ring

D. Frame Relay

Answer: ABD

NEW QUESTION 89

What must occur before two hosts can exchange data using TCP?

- A. Nothin
- B. The two hosts can send data to each other at any tim
- C. The two hosts must negotiate a path MTU to be used for the data exchang
- D. The two hosts must perform a 3-way handshake before transmitting dat
- E. The two hosts must exchange encryption keys before transmitting dat

Answer: C

NEW QUESTION 91

Public IP addresses are globally coordinated by which organization?

- A. Network Solutions INC
- B. IANA
- C. IETF
- D. ITU-T
- E. IEEE

Answer: B

NEW QUESTION 96

Choose two true statements that characterize Distance Vector Routing?

- A. Routers send a copy of their routing table to their neighbors periodicall
- B. Routers flood link information throughout the entire are
- C. Network converges quickly (within several seconds) after a topology chang
- D. Routers do not have precise knowledge of the entire network topolog

Answer: AD

NEW QUESTION 100

Which of the following statements best describe the purpose of UDP? (Choose two)

- A. Provides a connectionless delivery servic
- B. Provides a connection oriented delivery service
- C. Provides an unreliable transmission service,
- D. Provides a reliable transmission servic

Answer: AC

NEW QUESTION 104

What is the function of an LSR?

- A. Label Switching Routers make switching decisions based on the original MAC Heade
- B. Label Switching Routers make routing decisions based on the original IP Heade
- C. Label Switching Routers make forwarding decisions based on the MPLS labe
- D. Label Switching Routers make decisions based on ATM header informatio

Answer: C

NEW QUESTION 105

Why does UDP have less overhead than TCP?

- A. UDP has less overhead because it is only used for transmission of small amounts of dat
- B. UDP has less overhead then TCP because there is no checksum field in UD
- C. UDP overhead is the same as TCP because it uses the same fields in the heade
- D. UDP has less overhead because there is no requirement for acknowledgment or retransmissio

Answer: D

NEW QUESTION 107

Which device is responsible for removing the MPLS label before the packet reaches the CE device?

- A. The CE device removes the MPLS labe
- B. The last LSR on the LSP removes the MPLS labe
- C. MPLS labels are not removed until they reach the final destinatio
- D. The egress LER removes the MPLS labe

Answer: D

NEW QUESTION 108

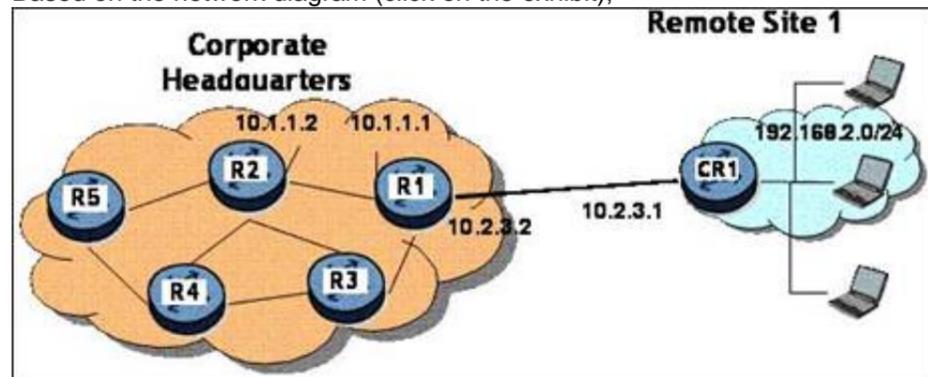
What does a VPLS solution look like from a customer's perspective?

- A. To the customer, it appears as if all sites are directly connected by a single cable
- B. To the customer, it appears as if all sites are connected through a single switched LAN
- C. To the customer, it appears as if all sites are connected through a single route
- D. To the customer, it appears as if all sites are connected through a series of private point-to-point connections

Answer: B

NEW QUESTION 113

Based on the network diagram (click on the exhibit),



What is the command to use on R1 to setup a static route to the network on CR1?

- A. config router static-route 192.168.2.0/24 next-hop 10.2.3.2
- B. config router static-route 10.2.3.1 next-hop 192.168.2.0
- C. config router static-route 192.168.2.0/24 next-hop 10.2.3.1
- D. config router static-route 10.2.3.2 next-hop 192.168.2.0

Answer: C

NEW QUESTION 116

Which of the following describes the normal sequence of events in the forming of an OSPF adjacency?

- A. Hello exchange, DB descriptor exchange, Link state requests and update
- B. DB descriptor exchange, Link state requests and updates, Hello exchange
- C. Link state requests and updates, Hello exchange, DB descriptor exchange
- D. Hello exchange, Link state requests and updates, DB descriptor exchange

Answer: A

NEW QUESTION 119

You need to implement an interior gateway routing protocol for your network that supports scalability, fast convergence and VLSM. Which routing protocol would best serve your needs?

- A. RIPv1.
- B. RIPv2.
- C. OSPF
- D. BGP
- E. Static route

Answer: C

NEW QUESTION 124

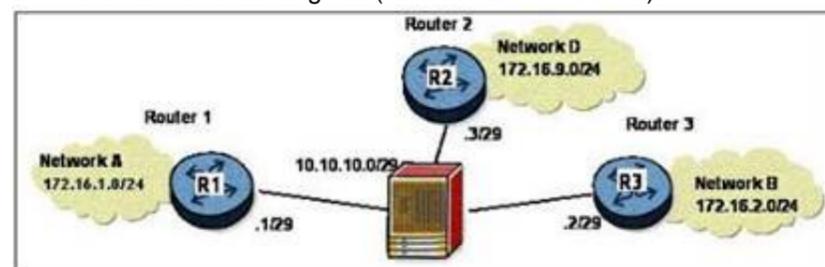
How does the Transport Layer identify which application is to receive the data?

- A. Using the IP address of the packet
- B. Using the MAC address of the frame
- C. Using port number
- D. Using Connection Identifier Numbers (CIN).

Answer: C

NEW QUESTION 129

Based on the network diagram (click the Exhibit Button).



Router 1 installs network D in its routing table following a dynamic routing update from Router 2. Which of the following describes the information that will be

installed in the routing table?

- A. 172.16.9.0/24 next-hop 10.10.10.1
- B. 172.16.9.0/24 next-hop 10.10.10.2
- C. 172.16.9.0.24 next-hop 10.10 10 3
- D. 0.0.0.0/32 next-hop 172.16.9.1

Answer: C

NEW QUESTION 130

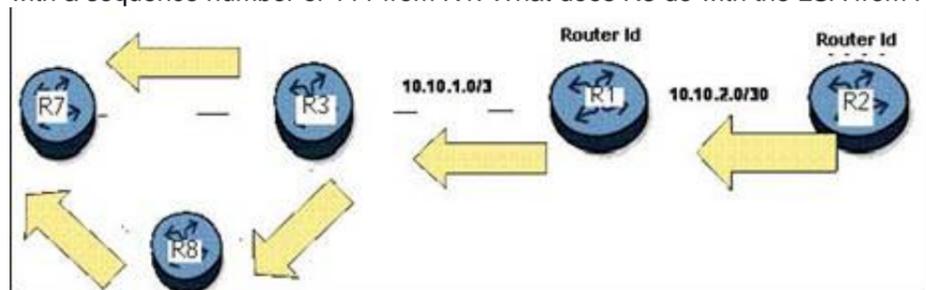
Which bit pattern identifies the network address in the subnet mask?

- A. A string of consecutive 1'
- B. A string of consecutive 0'
- C. A string of alternating 10'
- D. The network address is determined by masking the source address with a port's ifIndex binary representatio

Answer: A

NEW QUESTION 135

In the diagram, R3 receives an LSA with sequence number 112 from R7 and installs it in its link state database. 10 ms. Later it receives a copy of the same LSA with a sequence number of 111 from R1. What does R3 do with the LSA from R1?



- A. R3 discards the LSA received from R1 and sends a copy of the LSA from its link state base to R1.
- B. R3 installs the LSA received from R1 in its link state database and floods a copy to its neighbor
- C. R3 discards the LSA received from R1 and sends an ACK to R1.
- D. R3 installs the LSA received from R1 in its link state database, sends an ACK to R1 and floods a copy to its neighbor

Answer: A

NEW QUESTION 140

The 201.148.26.0/24 network is subnetted using a /26 mask. How many subnets and host addresses will be obtained with this mask?

- A. 4 subnets, 64 hosts
- B. 64 subnets, 4 hosts
- C. 4 subnets, 62 hosts
- D. 64 subnets, 2 hosts
- E. 6 subnets, 30 hosts

Answer: C

NEW QUESTION 145

Which of the following is NOT a field in a TCP header?

- A. Source por
- B. MT
- C. Sequence numbe
- D. Acknowledgement numbe
- E. Window siz

Answer: B

NEW QUESTION 148

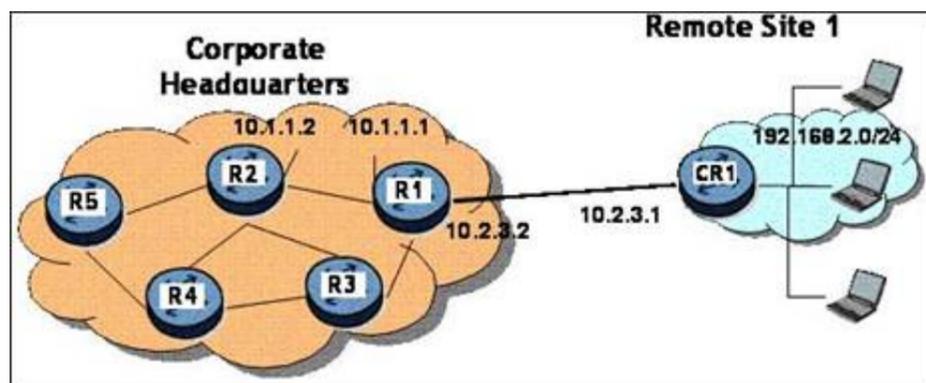
Which of the following mediums can be used in a VPWS when defining SAPs (Select three)?

- A. Etherne
- B. AT
- C. Frame Rela
- D. Token Rin

Answer: ABC

NEW QUESTION 152

Based on the network diagram (click on exhibit),



R2 wants to connect to the networks behind CR1 using a static-route. What is the correct syntax given the choices below? R1 has a valid static-route defined for networks behind CR1.

- A. config router static-route 192.168.2.0/24 next-hop 10.2.3.2
- B. config router static-route 192.168.2.0/24 next-hop 10.1.1.1
- C. config router static-route 192.168.2.0/24 next-hop 10.2.3.1
- D. config router static-route 192.168.2.0/24 next-hop 10.1.1.2
- E. none of the above

Answer: B

NEW QUESTION 153

TCP is sending data in 5 segments with SEQ numbers 27000, 27500, 28000, 28500, and 29000 respectively. During transmission, the segment with SEQ=28500 is dropped in the network. How does TCP handle this situation?

- A. The receiving end station sends an ACK flag with SEQ=28000 to indicate it has received a segment out of order
- B. The receiving station sends a NACK frame with SEQ=28500 requesting that the frame be retransmitted
- C. Once the receiver's window is full
- D. TCP assembles the payload and determines that SEQ=28500 is missing
- E. At this point, the receiver sends the RST flag with SEQ=28500 to Request Single Transmission of the missing segment
- F. TCP will collect the segments and forward them to the application layer where the SEQ numbers will be processed and a retransmit request will occur for the entire packet

Answer: C

NEW QUESTION 155

Which of the following best describes the function of the service label?

- A. Customer traffic is encapsulated with a service label by the ingress PE
- B. The service label identifies which transport tunnel to use
- C. Customer traffic is encapsulated with a service label by the egress PE
- D. The service label identifies which transport tunnel to use
- E. Customer traffic is encapsulated with a service label by the egress PE
- F. The service label identifies the specific service the data belongs to
- G. Customer traffic is encapsulated with a service label by the ingress PE
- H. The service label identifies the specific service the data belongs to

Answer: D

NEW QUESTION 158

What is the purpose of a broadcast address?

- A. Provides an address that refers to all the devices in a given network
- B. Provides an address that refers to a specific group of devices in a given network
- C. Provides an address that refers to a group of devices with the same IP addresses in different Layer 2
- D. Provides an address that refers to a single device on a given network

Answer: B

NEW QUESTION 159

Which of the following best describes a repeater?

- A. A passive device simply used to connect two or more cables
- B. It does not generate or amplify any signal
- C. A device that receives and retransmits a signal out its ports but does not do any Layer 2 analysis of the data
- D. A device that receives a signal and based on the Layer 2 destination address, makes a decision on which ports the signal should be retransmitted
- E. A device that receives a signal and based on the Layer 3 destination address makes a decision on which ports the signal should be retransmitted

Answer: B

NEW QUESTION 161

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