

## 4A0-100 Dumps

### Alcatel-Lucent Scalable IP Networks

<https://www.certleader.com/4A0-100-dumps.html>



**NEW QUESTION 1**

The physical networks connecting two PCs to the internet are DSL and PPP respectively. Which layer will enable the two PCs to communicate?

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

**Answer: C**

**NEW QUESTION 2**

Which of the following is a File command in the File System context of the Command Line Interface (CLI)?

- A. time-display
- B. help
- C. type
- D. terminal

**Answer: C**

**NEW QUESTION 3**

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 4**

A set of tasks that move a packet from its entry into an IP network to its exit from the IP network. This describes:

- A. IP routing
- B. IP protocol
- C. IP encapsulation
- D. IP tunneling

**Answer: A**

**NEW QUESTION 5**

Which organization first considered cross-platform networking support to be a necessity?

- A. IBM
- B. US Military
- C. Alcatel-Lucent
- D. NAS
- E. Bell Labs

**Answer: B**

**NEW QUESTION 6**

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 7**

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 8**

How many of the front access card slots of the Alcatel-Lucent 7750 SR-12 router are dedicated for redundant common equipment?

- A. 1
- B. 2
- C. 7
- D. 10

**Answer: B**

**NEW QUESTION 9**

Kahn solved the problem of interconnecting different networks using different protocols by pioneering a new protocol called TCP that was capable of:

- A. Secure transmission of informatio
- B. Enforcing a constant packet size to avoid discard
- C. Allowing remote login
- D. Providing host to host connectivity with global addressin

**Answer: D**

**NEW QUESTION 10**

What characteristic of IP addressing creates a hierarchical network?

- A. All hosts on all networks must have unique host number
- B. IP addresses identify a host and the network on which it reside
- C. Clients are assigned 32-bit addresses and servers 64-bit addresse
- D. Router, switch and host addresses are drawn from unique address classe

**Answer: B**

**NEW QUESTION 10**

Which three of the following are important considerations when designing subnets? (Choose three.)

- A. Number of subnetworks currently require
- B. Type of physical connectivity used by each segmen
- C. Future network growth requirement
- D. Number of hosts each subnetwork will suppor
- E. Class of the network address to be used for the networ

**Answer: ACD**

**NEW QUESTION 12**

Which of the following is a feature of a VLAN?

- A. A VLAN allows multiple Ethernet switches to be connected in a single broadcast domai
- B. A VLAN allows multiple Ethernet switches to be connected in a single collision domai
- C. A VLAN can separate ports on the same switch into different broadcast domain
- D. A VLAN can separate ports on the same switch into different collision domain

**Answer: C**

**NEW QUESTION 15**

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 17**

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 22**

Which of the following is a characteristic of the system address?

- A. A physical interface address
- B. A logical address on the router not corresponding to any specific interfac
- C. May have any prefix valu
- D. A management IP address

**Answer: B**

**NEW QUESTION 23**

Which field in the IP routing table contains the name or address of the neighbour that advertised the prefix to the router?

- A. Preferenc
- B. Metri
- C. Dest prefi
- D. Next ho

**Answer: D**

**NEW QUESTION 25**

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 29**

Which ATM adaptation layer is commonly used for transporting IP datagrams or non-real time data?

- A. AAL0
- B. AAL1
- C. AAL2
- D. AAL3/4
- E. AAL5

**Answer: E**

**NEW QUESTION 32**

Which type of IP address contains the network number and all 1's for the host address?

- A. Unicast address
- B. Broadcast address
- C. Multicast address
- D. Anycast address

**Answer: B**

**NEW QUESTION 35**

What protocol is used by ping to verify IP network reachability?

- A. DCHP
- B. ICMP
- C. ARP
- D. NAT

**Answer: B**

**NEW QUESTION 37**

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 41**

Which of the following is a feature of Layer 3?

- A. Provides an universal addressing scheme
- B. Ensures data is delivered across the Layer 2 network
- C. Provides reliable data transfer
- D. Provides a physical interface to the networ

**Answer: A**

**NEW QUESTION 46**

Which of the following user interface sessions are accessible through Telnet and Secure Shell (SSH) on the Alcatel-Lucent 7750 SR and 7450 ESS?

- A. Graphic User Interface (GUI).
- B. Node Management Terminal Interface (NMTI).
- C. Command Line Interface (CLI).
- D. All of the above

**Answer: C**

**NEW QUESTION 47**

What happens next after an incoming packet is de-encapsulated from the Layer 2 frame in an Alcatel-Lucent 7750 router?

- A. The IP datagram is encapsulated in the appropriate Layer 2 frame by the MD
- B. The IP datagram passes through the switch fabric to reach the egress IO
- C. The IP datagram is passed to the IO
- D. A lookup is performed in the FIB to determine the egress interface

**Answer: C**

**NEW QUESTION 51**

What is NOT a function of the IOM?

- A. It forwards the data to the switch fabric
- B. It discards excess data packet
- C. It converts the incoming data to an internal format
- D. It performs Quality of Service operations and buffers incoming data

**Answer: C**

**NEW QUESTION 55**

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

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

**Answer: A**

**NEW QUESTION 56**

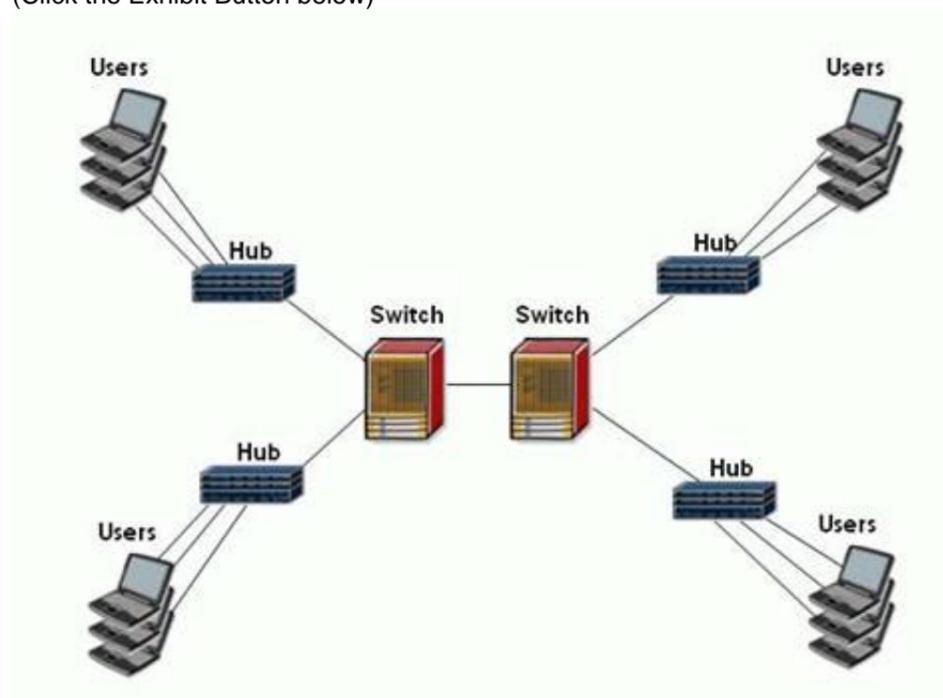
Which of the following statements is TRUE regarding the development of the OSI Reference Model?

- A. OSI was developed as an alternative, open standard to IBM's SNA mode
- B. OSI protocols were no longer used after TCP/IP was developed
- C. OSI model is much simpler than TCP/IP
- D. OSI model is maintained exclusively by the IET

**Answer: A**

**NEW QUESTION 60**

(Click the Exhibit Button below)



An Ethernet Local Area Network (LAN) consists of the following components:

Four 24-port hubs & Two 16-port switches

How many broadcast domains are on this LAN?

- A. 1
- B. 2
- C. 5
- D. 32

**Answer:** A

**NEW QUESTION 64**

One of the tasks of the boot options file (BOF) is to:

- A. Specify authorization information to control access to the route
- B. Define an IP address for the CPM Ethernet port
- C. Initialize the hardware
- D. Set the date/time for the system

**Answer:** B

**NEW QUESTION 69**

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

**Answer:** A

**NEW QUESTION 70**

What distance is supported using CAT-5 cabling for 10/100/1000 TX?

- A. 100
- B. 500
- C. 1 K
- D. 10 K

**Answer:** A

**NEW QUESTION 73**

A Class C network is defined by a:

- A. 32-bit network prefix
- B. 24-bit network prefix
- C. 16-bit network
- D. 8-bit network

**Answer:** B

**NEW QUESTION 74**

Which of the following is a characteristic of the IP layer?

- A. Provides an unreliable, connectionless data transmission service
- B. Provides a mechanism for flow control
- C. Verifies the integrity of all received datagrams
- D. Provides services equivalent to the OSI data link layer

**Answer:** A

**NEW QUESTION 78**

With a subnet mask of 255.255.255.224, which of the IP addresses below are valid host addresses? (Choose all that apply)

- A. 17.23.119.63
- B. 87.99.12.159
- C. 95.11.22.93
- D. 192.11.25.87

**Answer:** CD

**NEW QUESTION 82**

What must occur for a LAG to become operational?

- A. There must be multiple ports assigned to the LAG
- B. All ports in the LAG must be configured with the same characteristics
- C. Auto-negotiation must be enabled on all ports in the LAG
- D. All of the above

**Answer: B**

**NEW QUESTION 85**

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 86**

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 87**

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 91**

In what type of network is a broadcast storm likely to occur?

- A. An Ethernet network with redundant paths not running ST
- B. An ATM networ
- C. A SONET network
- D. All of the abov

**Answer: A**

**NEW QUESTION 94**

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 95**

If a 4-port LAG is configured with the option of 'port-threshold 2' and 'action down' what will happen if the total operational links in the LAG is 2?

- A. If dynamic-cost is enabled it will adjust the cost for routing protocols such as OSP
- B. If dynamic-cost is not enabled it will adjust the cost for routing protocols such as OSPF by dividing the link bandwidth by 2.
- C. The LAG will be changed to an operational state of 'down'.
- D. The LAG will function with only 2 port
- E. There will be no change to the routing metri

**Answer: C**

**NEW QUESTION 97**

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 101**

The IANA is responsible for:

- A. Intra-city ISP traffic
- B. Allocation of the global IP address space
- C. Allocating IP addresses for residential customer traffic
- D. Allocating North American IP addresses

**Answer: B**

**NEW QUESTION 106**

Which of the following statements is TRUE about ICMP?

- A. An IP datagram is encapsulated within an ICMP header
- B. ICMP messages can only be generated by router
- C. ICMP messages are encapsulated within an IP datagram
- D. ICMP guarantees delivery of a message

**Answer: C**

**NEW QUESTION 109**

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 112**

Which Ethernet frame field does the receiver use to verify the integrity of the received bits?

- A. Destination address
- B. Frame check sequence
- C. Preamble
- D. Length field

**Answer: B**

**NEW QUESTION 117**

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 119**

Which organization eventually became the standards body for IP and related protocols?

- A. IEEE
- B. IETF
- C. NSFNET
- D. ITU-T
- E. APNIC

**Answer: B**

**NEW QUESTION 120**

What is the effective maximum rate of data transmission on a 10 Mbps full-duplex Ethernet link?

- A. 5 Mbps
- B. 10 Mbps
- C. 15 Mbps
- D. 20 Mbps

**Answer: D**

**NEW QUESTION 123**

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

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

**Answer:** CD

**NEW QUESTION 125**

What is the main purpose of IP fragmentation?

- A. To limit the number of the IP addresses in the networ
- B. To improve the efficiency of transmissions over the networ
- C. To reduce the number of resources required to send a large frame over the networ
- D. To allow IP datagrams to be carried over Layer 2 networks with varying MTU size

**Answer:** D

**NEW QUESTION 127**

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 transmissio
- B. The host is able to detect the transmission speed of the Ethernet switch port to which the host is connecte
- C. The host will only transmit data when it detects that no other devices are transmittin
- D. The host will only transmit upon a timer expir
- E. The host will only transmit when it receives the toke

**Answer:** C

**NEW QUESTION 128**

Which of the following best describes the operation of the Media Dependent Adapter (MDA)?

- A. The MDA contains the flexible fast path complex used for forwarding dat
- B. Excess data is discarded by the MDA and the remaining data forwarded for QoS processin
- C. The MDA buffers data and applies Quality of Service (QoS) to classify and treat the data appropriatel
- D. The MDA converts data from its incoming physical format into an internal format and provides some minimal bufferin

**Answer:** D

**NEW QUESTION 131**

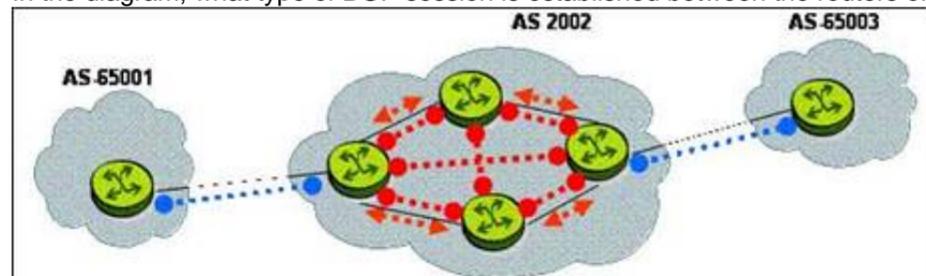
Which of the following describes a static default route?

- A. A routing entry, included in the RIB by default, that forwards packets with an unknown destination to the CPM for inspectio
- B. A manual entry used when the destination address of a network is not specifically listed in the routing tabl
- C. A manual entry that matches a specific /32 host address using the least cost to the destinatio
- D. A default entry in the FIB used when forwarding multicast and broadcast packet

**Answer:** B

**NEW QUESTION 136**

In the diagram, what type of BGP session is established between the routers of AS 2002?



- A. IGP
- B. IBGP
- C. EBGp
- D. EGP
- E. BGPcannotbe run between routers in the same A

**Answer:** B

**NEW QUESTION 141**

Where would you expect to find a P router in a service provider's network? A. At the edge of the provider's network facing the customer.

- A. At the edge of the customer's network facing the provide
- B. In the core of the providers network
- C. On the customer premise

**Answer: C**

**NEW QUESTION 143**

Which of the following are NOT examples of a VPN service offered on the Alcatel-Lucent 7750 SR? Choose two.

- A. VPWS Virtual Private Wire Service
- B. VPLS Virtual Private LAN Servic
- C. VPRN Virtual Private Routed Network
- D. MLPPP Multi-link Point-to-Point protocol
- E. VPDFS Virtual Private Dark Fiber Servic

**Answer: DE**

**NEW QUESTION 144**

In regards to the Alcatel-Lucent 7750 SR-12 router, how many of the front access card slots are dedicated for Control Processors?

- A. 1
- B. 2
- C. 7
- D. 10

**Answer: B**

**NEW QUESTION 147**

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

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

**Answer: D**

**NEW QUESTION 149**

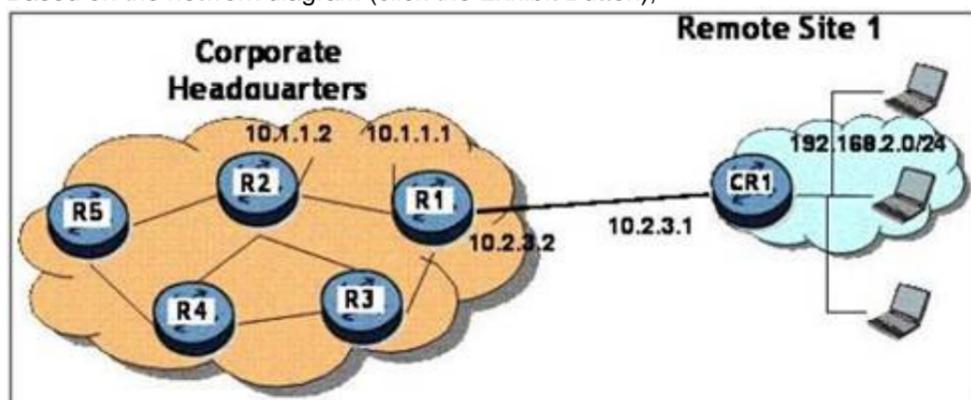
Which of the following SAP types can be associated to a VPWS? (Choose 3)

- A. Ethernet
- B. ATM
- C. Token Ring
- D. Frame Relay

**Answer: ABD**

**NEW QUESTION 153**

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



what are the prefix, mask, and next-hop used on CR1 to setup a default static route to R1?

- A. 0.0.0.0/0 next-hop 10.2 3.2
- B. 0.0.0.0/32 next-hop 10.2.3.2
- C. 10.2.3.2/32 next-hop 0.0.0.0/0
- D. 0.0.0.0/0 next-hop 192.168.2.0

**Answer: A**

**NEW QUESTION 154**

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 exchange
- D. The two hosts must perform a 3-way handshake before transmitting data
- E. The two hosts must exchange encryption keys before transmitting data

**Answer: C**

**NEW QUESTION 157**

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 161**

How is Ethernet II different from Ethernet 802.3?

- A. Ethernet II can be used on broadcast networks whereas 802.3 was designed for point-to-point network
- B. Ethernet II identifies its payload type whereas 802.3 indicates the frame length
- C. Ethernet II identifies its frame length while 802.3 indicates the payload type
- D. Ethernet II and Ethernet 802.3 are two different names for the same protocol

**Answer: B**

**NEW QUESTION 166**

What is the function of the Routing Table Manager?

- A. Based on the metrics of the routing protocol, find the best path to the destination network and install it in the routing table
- B. Provide a CLI interface to allow the operator to configure the dynamic routing protocol on the router
- C. Based on the routing protocol preference values, choose the route with the lowest preference and install it in the routing table
- D. Provide a CLI interface to allow the network operator to install static routes in the routing table

**Answer: C**

**NEW QUESTION 169**

Which of the following protocols belongs to the OSI suite of protocols? (Choose 2)

- A. OSPF
- B. BGP
- C. X.500
- D. IS-IS
- E. Ethernet

**Answer: CD**

**NEW QUESTION 173**

Which answer reflects the correct message sequence used when a source attempts to ping a destination for which it has no Address Resolution Protocol (ARP) cache entry?

- A. ICMP echo request, ARP request, ARP reply, ICMP echo reply
- B. ARP request, ARP reply, ICMP echo request, ICMP echo reply
- C. ICMP echo request, ICMP echo reply, ARP request, ARP reply
- D. ICMP echo request
- E. ARP reply, ARP request, ICMP echo reply

**Answer: B**

**NEW QUESTION 174**

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

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

**Answer: D**

**NEW QUESTION 179**

How does a VPRN service avoid the problem of overlapping IP addresses from different customers?

- A. You cannot have overlapping IP addresses
- B. Customers must change their IP address assignments

- C. Each VPRN service maintains a separate VPN routing and forwarding instance to separate customer routing information
- D. This allows for overlapping addresses
- E. A VPRN ignores IP addressing information and uses MAC addressing instead, which are always unique
- F. A VPRN translates customer IP addresses to a private addressing scheme administered by the service provider

**Answer: B**

**NEW QUESTION 184**

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

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

**Answer: A**

**NEW QUESTION 185**

Which field in the TCP header is used by the receiver to indicate how many segments it can receive?

- A. Checksum
- B. SYN
- C. Destination port
- D. Window size
- E. MTU

**Answer: D**

**NEW QUESTION 187**

What happens in a TCP session if a segment is not acknowledged within a certain time period?

- A. The missing segment is retransmitted
- B. The TCP session is terminated
- C. The sender sends the next segment
- D. An ICMP destination unreachable message is sent

**Answer: A**

**NEW QUESTION 191**

What must the sender do when it receives a window size of 0 from the receiver?

- A. Stop transmitting
- B. Terminate the TCP session
- C. Send the next segment
- D. Retransmit the previous segment

**Answer: A**

**NEW QUESTION 193**

Host A receives a TCP SYN/ACK segment. What does this signify?

- A. Host A has received a request to establish a TCP session
- B. Host A has received a request to close a TCP session
- C. A TCP session is now established to host
- D. The TCP session has been terminated due to a timeout

**Answer: C**

**NEW QUESTION 194**

SAPs may be a port, a port with a specific VLAN tag in the case of an Ethernet port, or a port with a specific Circuit ID in the case of ATM or Frame Relay.

- A. True
- B. False

**Answer: A**

**NEW QUESTION 198**

Which of the following statements best characterize Link State Routing? (Choose 2)

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

**Answer: BC**

**NEW QUESTION 200**

Which transport protocol and port number is used by BGP to establish and maintain a peering session with other BGP speakers?

- A. TCP port 179.
- B. UDP port 179.
- C. TCP port 22.
- D. UDP port 22.

**Answer:** A

**NEW QUESTION 204**

Which of the following are correct statements about MPLS labels (Choose three)?

- A. A series of labels from one LER to another LER represent a logical tunnel known as an LS
- B. Labels used for a LSP may be static but are usually signaled dynamically with an MPLS label signaling protoco
- C. Labels are locally significant to the MPLS router which means its possible for two routers on the LSP path to use the same labe
- D. Labels are globally significant to the MPLS network which means all labels on the LSP path must be uniqu
- E. Labels used for an LSP must be statically assigned by the service provide

**Answer:** ABC

**NEW QUESTION 205**

Which of the following statements is TRUE regarding IP addressing?

- A. Classful IP addressing provides hierarchy based on variable subnet mask
- B. Classless IP addresses provide hierarchy based on a variable length subnet mas
- C. Classless IP addresses provide hierarchy based on fixed subnet masks of /24./16 and/8.
- D. IP addresses provide hierarchy based on the country code and regional identifie

**Answer:** B

**NEW QUESTION 207**

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

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

**Answer:** C

**NEW QUESTION 208**

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 210**

A CE device has a physical connection to which device in the service providers MPLS network?

- A. CE always connects to a PE route
- B. CE always connects to a P route
- C. CE always connects to another CE devic
- D. The CE does not connect to the service provider networ

**Answer:** A

**NEW QUESTION 214**

Which statement best describes a SAP?

- A. The Service ATM Point is used for ATM connections to a P
- B. The Service Access Point is defined on the PE device and is the customers access to the servic
- C. The Service Access Point is defined on the P device and is the customers access to the servic
- D. The Service Access Point is defined on the CE device and is the customers access to the servic

**Answer:** B

**NEW QUESTION 216**

Which of the following are considered Virtual Private Networks? Choose all that apply.

- A. IES
- B. VPWS
- C. VPLS
- D. VPRN

**Answer:** BCD

**NEW QUESTION 217**

Which of the following statements are TRUE about the Alcatel-Lucent SR 7750? (Choose 2)

- A. It can boot without a compact flash in the CF3 slot
- B. It cannot boot without a compact flash in the CF3 slot
- C. It can operate without a compact flash in the CF3 slot once it has booted
- D. It cannot operate without a compact flash in the CF3 slot once it has booted

**Answer:** BC

**NEW QUESTION 219**

Which of the following describes a static default route?

- A. An entry included in the default configuration of the router that is used if no dynamic routing protocols or static routes are configured
- B. A wildcard entry used when the destination network is not specifically defined in the routing table
- C. An entry selected based on the route that has the least cost to the destination (path with the most physical bandwidth)
- D. An entry used by the routing protocol when it is unable to calculate the best route to the destination

**Answer:** B

**NEW QUESTION 222**

How does LDP select the path used for an LSP?

- A. LDP monitors the available bandwidth on all links and signals the LSP based on this information
- B. LDP uses the shortest hop-count between two endpoints for the LSP
- C. LDP must be configured hop-by-hop by the service provider
- D. LDP follows the path chosen by the IGP

**Answer:** D

**NEW QUESTION 226**

Which of the following statements is FALSE when describing a Virtual Private LAN Service?

- A. A VPLS emulates a virtual switch or bridge
- B. The VPLS performs MAC learning on MAC addresses seen from SAPs and SDPs
- C. When a VPLS receives a frame with an unknown MAC destination, the frame will be dropped
- D. MAC addresses are maintained in a MAC address forwarding database (FDB).

**Answer:** C

**NEW QUESTION 228**

From the CE perspective, how does a VPLS operate?

- A. A VPLS operates as if 2 sites are directly connected by a single cable
- B. A VPLS operates as if multiple sites are connected through a single switched LAN
- C. A VPLS operates as if multiple sites are connected through a single route
- D. A VPLS operates as if multiple sites are connected through a series of private point-to-point routed connections

**Answer:** B

**NEW QUESTION 230**

Which of the following are important to consider when designing IPv4 subnets? (Choose 3)

- A. The number of subnetworks currently required
- B. The version of the Ethernet used by each segment
- C. Future network growth requirements
- D. The number of hosts each subnetwork will support
- E. The class of the IP address assigned to an organization

**Answer:** ACD

**NEW QUESTION 231**

The statement below describes which of the following activities?

"A set of tasks that moves a packet from its entry into an IP network to its exit from the IP network."

- A. IP forwarding
- B. IP decapsulation
- C. IP encapsulation

D. IP tunneling

**Answer:** A

**NEW QUESTION 235**

If a customer requires a point-to-point layer 2 VPN service between two locations which VPN service would be typically suited for this customer?

- A. Virtual Private Wire Service .
- B. Virtual Private LAN Servic
- C. Virtual Private Routed Network
- D. Virtual Private Dark Fiber Servic

**Answer:** A

**NEW QUESTION 236**

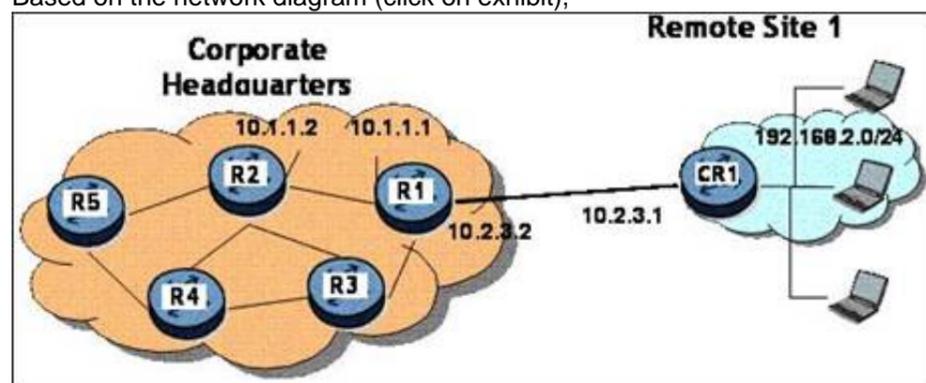
Which of the following mediums can be used in a VPWS when defining SAPs (Select three)?

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

**Answer:** ABC

**NEW QUESTION 240**

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 241**

Multiple SAPs may be defined on the same physical port and may be used for different services.

- A. True
- B. False

**Answer:** A

**NEW QUESTION 243**

Which two protocols are used for the dynamic signaling of MPLS labels (Choose two)?

- A. RSVP-TE
- B. CSPF
- C. PNNI
- D. LDP

**Answer:** AD

**NEW QUESTION 245**

What are the tasks of the Routing Table Manager (RTM)? Choose two

- A. RTM selects the best route from among multiple routing protocol
- B. RTM selects the best route using the metric as criteria
- C. RTM sends its best route to all its directly connected neighbor
- D. RTM installs its best route in the routing tabl

**Answer:** AD

**NEW QUESTION 246**

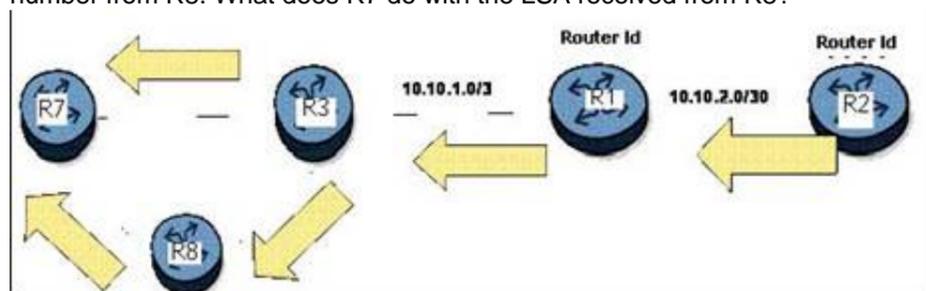
TCP is sending data in 5 segments with SEQ numbers 27000, 27500, 28000, 28500, and 29000 respectively. During transmission, the segment with SEQ=28500 is dropped in the network. How does TCP handle this situation?

- 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 250**

In the diagram, R7 receives a new LSA from R3 and installs it in its link state database. 10 ms. later it receives another copy of the LSA with the same sequence number from R8. What does R7 do with the LSA received from R8?



- A. R7 silently discards the LSA received from R8.
- B. R7 installs the LSA received from R8 in its link state database and floods a copy to its neighbor
- C. R7 discards the LSA received from R8 and sends an ACK to R8.
- D. R7 installs the LSA received from R8 in its link state database, sends an ACK to R8 and floods a copy to its neighbor

**Answer: C**

**NEW QUESTION 253**

Which of the following statements is TRUE regarding a VPWS service?

- A. VPWS is a point-to-multipoint service
- B. VPWS requires MAC learning in order to forward frames to the correct destination
- C. A Spanning Tree Protocol must be enabled when deploying a VPWS
- D. VPWS treats multicast traffic similar to unicast traffic

**Answer: D**

**NEW QUESTION 257**

Which protocol is used by ping to verify IP network reachability? A. DHCP

- A. ICMP
- B. ARP
- C. NAT

**Answer: B**

**NEW QUESTION 258**

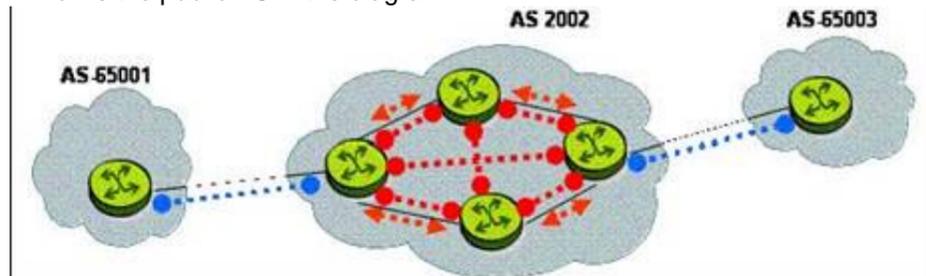
What is the purpose of the source and destination ports in the TCP header?

- A. These ports identify the physical location of the sender and the receiver on the IP route
- B. These ports are used as addresses to communicate with the IP layer
- C. TCP does not use source or destination port
- D. These ports are used as an address to identify the upper layer application using the TCP connection

**Answer: D**

**NEW QUESTION 259**

Which is the public AS in the diagram?



- A. 65001

- B. 65003
- C. 2002
- D. All of the above
- E. None of the above

**Answer: C**

**NEW QUESTION 261**

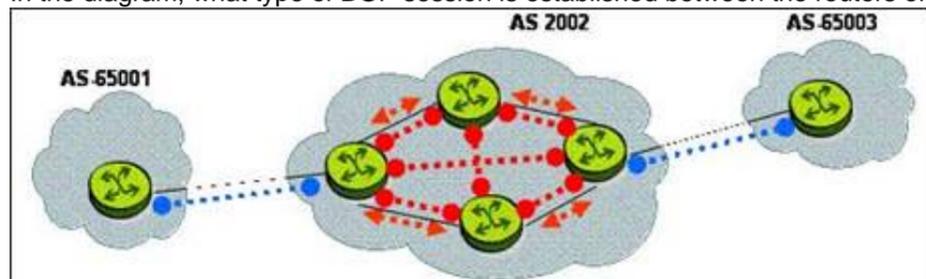
Which of the parameters in Hello messages exchanged between two OSPF neighbors must be the same to keep the adjacency alive in OSPF? (Choose four.)

- A. Interface MT
- B. Area ID
- C. Authentication password
- D. Hello interval
- E. Dead interval
- F. Router priority

**Answer: BCDE**

**NEW QUESTION 266**

In the diagram, what type of BGP session is established between the routers of AS 65001 and AS 2002?

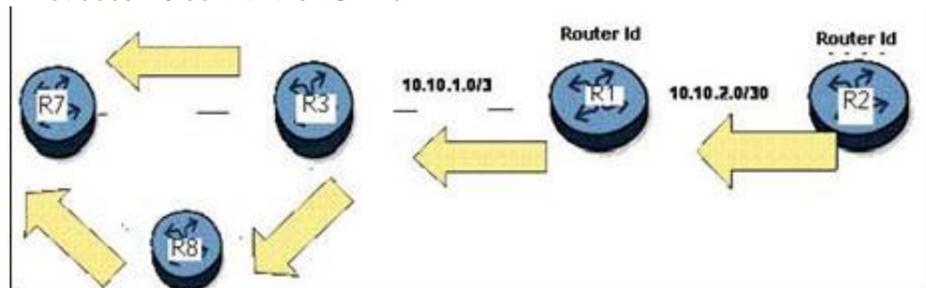


- A. IGP
- B. IBGP
- C. EBGP
- D. EGP
- E. BGP cannot be run between routers in different AS

**Answer: C**

**NEW QUESTION 267**

In the diagram, R3 receives an LSA with the sequence number 111 from R7 and then receives another copy of the LSA with a sequence number 112 from R1. What does R3 do with the LSA from R1?

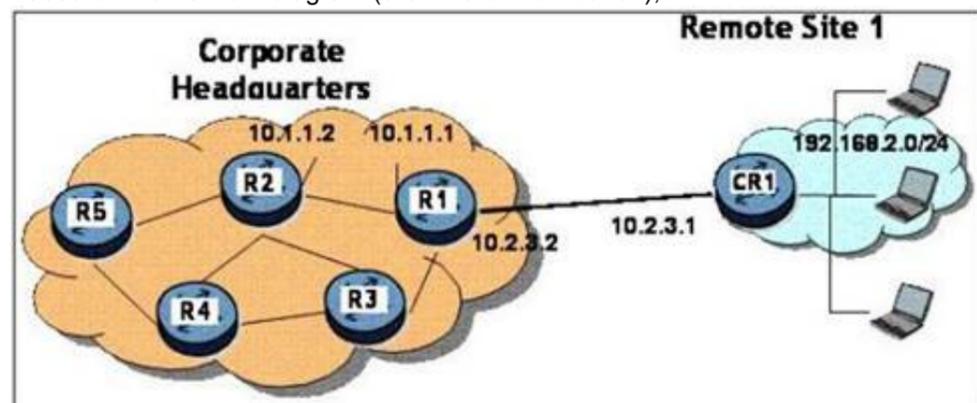


- A. R3 discards the LSA received from R1 and sends a copy of the LSA from its link state base to R1.
- B. R3 installs the LSA received from R1 in its link state database and floods a copy to its neighbor
- C. R3 discards the LSA received from R1 and sends an ACK to R1.
- D. R3 installs the LSA received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

**Answer: D**

**NEW QUESTION 270**

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



what is the next-hop used on R1 to setup a static route to the network on CR1?

- A. next-hop 10.2.3.2
- B. next-hop 192.168.2.1

- C. next-hop 10.2 3.1
- D. next-hop 192.168.2.0

**Answer: C**

**NEW QUESTION 271**

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 274**

Which of the following statements best characterize Distance Vector Routing? (Choose 2)

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

**Answer: AD**

**NEW QUESTION 279**

.....

## Thank You for Trying Our Product

\* 100% Pass or Money Back

All our products come with a 90-day Money Back Guarantee.

\* One year free update

You can enjoy free update one year. 24x7 online support.

\* Trusted by Millions

We currently serve more than 30,000,000 customers.

\* Shop Securely

All transactions are protected by VeriSign!

**100% Pass Your 4A0-100 Exam with Our Prep Materials Via below:**

<https://www.certleader.com/4A0-100-dumps.html>