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Alcatel-Lucent Scalable IP Networks

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QUESTION 1

What characteristic of IP addressing creates a hierarchical network?

A. All hosts on all networks must have unique host numbers.

B. IP addresses identify a host and the network on which it resides.

C. Clients are assigned 32-bit addresses and servers 64-bit addresses.

D. Router, switch and host addresses are drawn from unique address classes.

Correct Answer: B

QUESTION 2

A network with address 208.40.224.0/24 is divided into /28 subnets. What is the host address range of the fourth subnetwork?

A. 208.40.224.17 ?208.40.224.30

B. 208.40.224.33 ?208.40.224.46

C. 208.40.224.49 ?208.40.224.62

D. 208.40.224.65 ?208.40.224.78

Correct Answer: C

QUESTION 3

Which of the following statements regarding TCP is TRUE?

A. Sequence numbers are used to ensure that the data received is offered to the application in the correct order.

B. The SYN flag is used to identify congestion in the network.

C. The NACK flag is set on confirmation segments to acknowledge FCS errors.

D. The window size is transmitted in all TCP segments to communicate MTU limitations of lower layer protocols to upper layer applications.
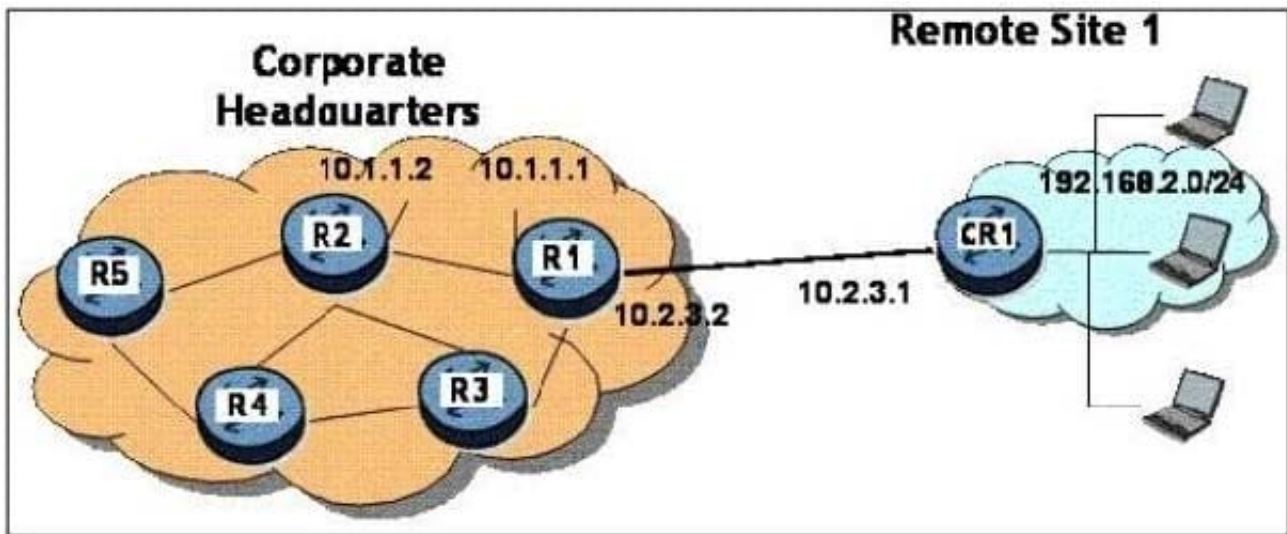
Correct Answer: A

QUESTION 4

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

A. VPWS is a point-to-multipoint service.

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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.

Correct Answer: D

QUESTION 5

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

Correct Answer: A

QUESTION 6

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

A. STS-1 with a bit rate of 1.544 Mbit/s

B. STS-1 with a bit rate of 2.048 Mbit/s

C. STS-1 with a bit rate of 51.84 Mbit/s

D. STS-1 with a bit rate of 155.52 Mbit/s

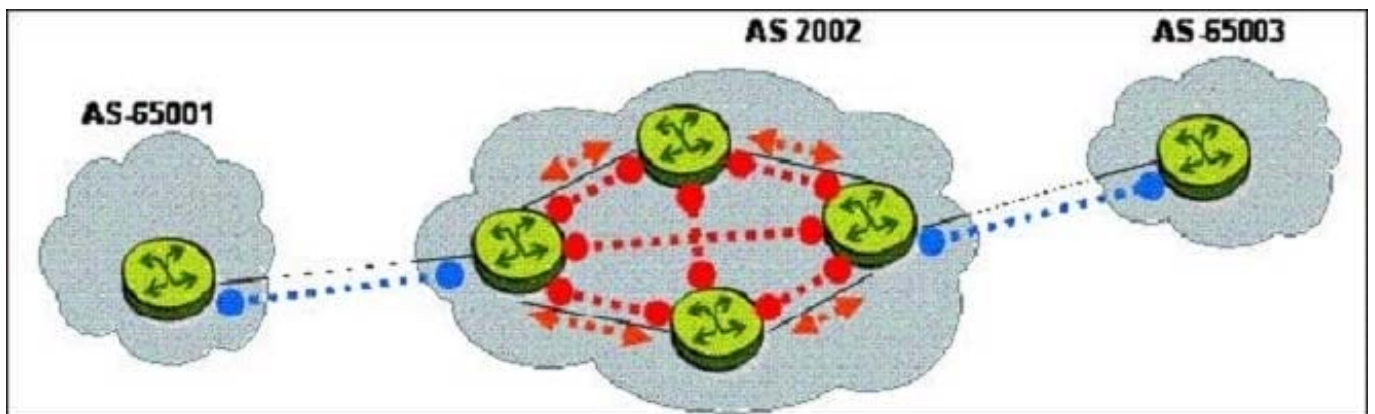![Pass2Lead](https://Pass2Lead.com)
Correct Answer: C

QUESTION 7

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 domains.

B. Every Host device must have a unique Layer 3 address in order to access the Internet.

C. Internet devices need unique Layer 3 addresses to communicate directly with upper layers.

D. A router must have only one address to allow it to be uniquely identified.

Correct Answer: B

QUESTION 8

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 ASs.

Correct Answer: C

QUESTION 9

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

A. Unicast address.

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B. Broadcast address.

C. Multicast address.

D. Anycast address.

Correct Answer: B

QUESTION 10

Which of the following is IANA responsible for?

A. The allocation of enterprise IP address space

B. The allocation of residential IP address space

C. The allocation of global IP address space

D. The allocation of North American IP address space

Correct Answer: D

QUESTION 11

What is the main purpose of IP fragmentation?

A. To limit the number of the IP addresses in the network.

B. To improve the efficiency of transmissions over the network.

C. To reduce the number of resources required to send a large frame over the network.

D. To allow IP datagrams to be carried over Layer 2 networks with varying MTU sizes.

Correct Answer: D

QUESTION 12

Which of the following is a characteristic of Link State protocols?

A. Routers send a copy of their entire routing table to their neighbors.

B. Routers send frequent periodic updates to the entire network.

C. Routers know the entire network topology.

D. Routers use hop-count to calculate their routing tables.

Correct Answer: C

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QUESTION 13

How do ATM and Frame-Relay protocols differentiate multiple customers or traffic types on the same physical wire?

A. They use virtual circuits to create a logical separation of traffic.

B. They use subnetting to create a logical separation of traffic.

C. They use VLANs to create a logical separation of traffic.

D. They use IP header information to create a logical separation of traffic.

Correct Answer: A

QUESTION 14

What ICMP message type will a router use to indicate to a host that an IP datagram sourced from that host cannot be delivered?

A. Echo Request.

B. Destination Unreachable.

C. Router redirect.

D. Echo Reply.

Correct Answer: B

QUESTION 15

Choose two true statements that characterize Distance Vector Routing?

A. Routers send a copy of their routing table to their neighbors periodically.

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.

Correct Answer: AD

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