



- A. scalability
- B. serviceability
- C. redundancy
- D. resiliency

Correct Answer: A

QUESTION 54

A network engineer must connect two sites. Each site has a different autonomous system number. Which method do you use to exchange routing information between the sites?

- A. OSPFv3
- B. BGP
- C. static routing
- D. EIGRP
- E. IGP

Correct Answer: B

QUESTION 55

What are two benefits of the bottom-up design approach? (Choose two.)

- A. allows a quick response to a design request
- B. facilitates design that is based on previous experience
- C. requires little or no notation of actual organizational requirements for implementation
- D. incorporates organizational requirements
- E. provides a broader overview to the organization and the designer

Correct Answer: AB

QUESTION 56

Which network virtualization technique can you implement without disrupting the existing network design and infrastructure?

- A. VRF-Lite
- B. EVN
- C. MPLS
- D. VNET tags

Correct Answer: A

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QUESTION 57

DRAG DROP

Drag the characteristic on the left to the correct campus design model on the right.

uses VSS to provide redundancy	Layer 2 Switching Campus Design
uses FHRP for high availability	
route filtering is configured on interfaces toward the access layer	
inter-VLAN communications are routed in the distribution layer	Layer 3 Switching Campus Design
only one redundant connection between the access switch and the distribution switch can be active	

Correct Answer:

uses VSS to provide redundancy	Layer 2 Switching Campus Design
uses FHRP for high availability	
route filtering is configured on interfaces toward the access layer	
inter-VLAN communications are routed in the distribution layer	Layer 3 Switching Campus Design
only one redundant connection between the access switch and the distribution switch can be active	

QUESTION 58

What are three valid methods of gathering information about an existing data network? (Choose three.)

- A. Use organizational input.
- B. Perform a traffic analysis.
- C. Analyze the user-mapping of a running application.
- D. Perform a packet-level audit to verify carrier service guarantees.
- E. Perform a network audit to gather more detail about the network.
- F. Use reports that analyze the metrics of the customer's existing network.

Correct Answer: ABE

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QUESTION 59

Which statement is true about using a DNS server to discover a controller IP?

- A. The AP sends a discovery request to the first controller on the list and then goes down the list chronologically until it receives a discovery response.
- B. The AP sends a discovery request to the last controller on the list and then goes up the list chronologically until it receives a discovery response.
- C. The AP sends a discovery request to all controllers on the list simultaneously.
- D. Multiple controller IP addresses in a DNS response are not supported.

Correct Answer: C

QUESTION 60

Where in the network hierarchy should network access control be performed?

- A. backbone
- B. core
- C. access
- D. distribution

Correct Answer: C

QUESTION 61

What is the benefit of VLSM?

- A. reduces configuration complexity by using the same subnet mask length
- B. reduces the routing table size by using automatic route summarization
- C. reduces the routing table size by using manual route summarization
- D. allows the subnet mask and classful routing updates to be advertised
- E. secures the hosts on a subnet by using RFC 1918 addresses

Correct Answer: C

QUESTION 62

An infrastructure is designing a private WAN infrastructure to support an Organization and must support quality of service and multicast functionality to the remote sites. Which WAN technology support this requirement?

- A. MPLS
- B. IPsec VPN
- C. DMVPN
- D. SSL VPN

Correct Answer: A

QUESTION 63

Which three options are examples of network logical virtualization? (Choose three.)

- A. virtual PortChannel
- B. virtual machine

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- C. Virtual Device Context
- D. Virtual Switching System
- E. virtual device driver

Correct Answer: ACD

QUESTION 64

What IPv4 addressing technique is used for proper address planning to reduce the number of entries in a routing table?

- A. filtering
- B. tunneling
- C. summarization
- D. translation
- E. supernetting

Correct Answer: C

QUESTION 65

Between what two modules DMZ should be located? (Choose two.)

- A. Internet
- B. Building access
- C. Building distribution
- D. Corporate network

Correct Answer: AD

QUESTION 66

Refer to the exhibit. Which next hop will the router select if given an IP packet with the destination address 19.48.254.3?

Address/Mask	Next hop
19.46.0.0/16	Interface 0
19.47.0.0/16	Interface 1
19.52.43.0/24	Router 1
default	Router 2

- A. Router 2
- B. Router 1
- C. Interface 0
- D. Interface 1

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Correct Answer: A

QUESTION 67

What is a benefit of IPv6 over IPv4 addresses?

- A. shorter addresses
- B. automatic summarization
- C. hierarchal global address space
- D. faster IGP convergence

Correct Answer: C

QUESTION 68

You are tasked with designing a new branch office that will support 75 users with possible expansion in the future and will need a highly available network. Which of the branch design profiles should be implemented?

- A. large branch design
- B. medium branch design
- C. teleworker design
- D. small branch design

Correct Answer: B

Explanation:

Medium Branch Design

The medium branch design is recommended for branch offices of 50 to 100 users, which is similar to the small branch but with an additional access router in the WAN edge (slightly larger) allowing for redundancy services. Typically, two 2921 or 2951 routers are used to support the WAN, and separate access switches are used to provide LAN connectivity.

QUESTION 69

What are the three models that are required in the systematic approach of the top-down design methodology? (Choose three.)

- A. logical
- B. physical
- C. layered
- D. network components
- E. technological
- F. protocols
- G. virtual

Correct Answer: ABC

QUESTION 70

Which three layers comprise the traditional hierarchical model? (Choose three.)

- A. core layer
- B. distribution layer
- C. access layer

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