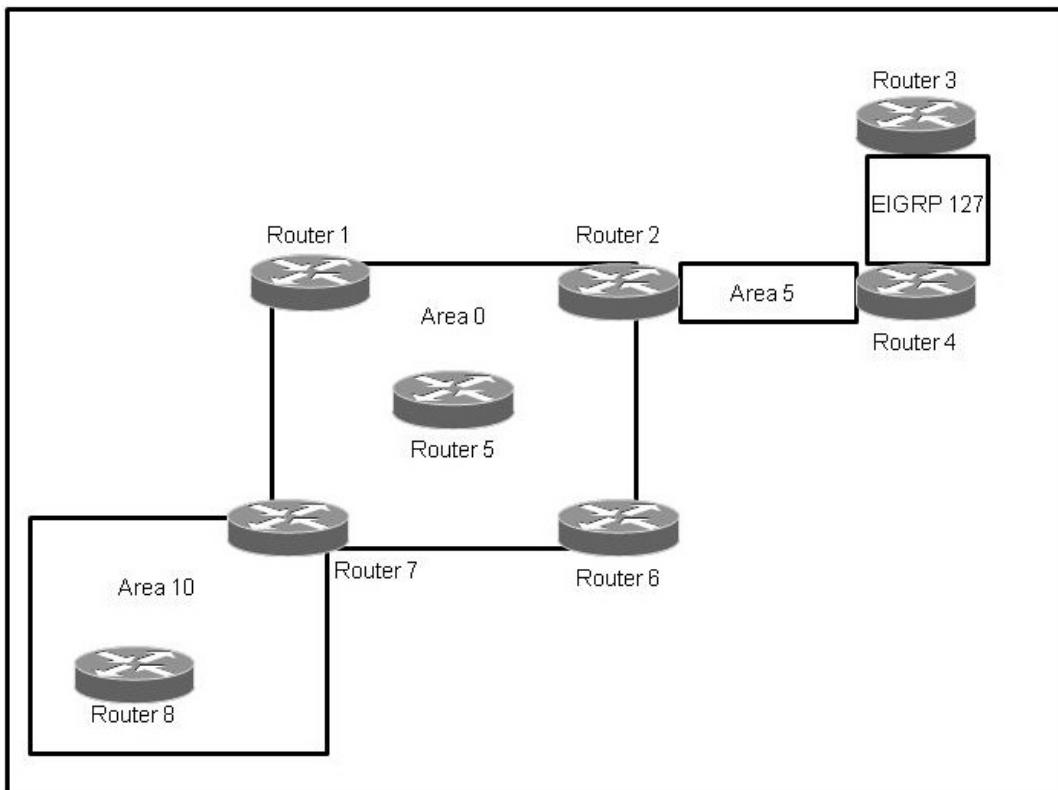# Cisco

Exam 200-310

Designing for Cisco Internetwork Solutions

Version: 10.0

[Total Questions: 190]

Question No : 1

Refer to the exhibit.

Which three OSPF routers are the only routers that may perform summarization with the current network layout? (Choose three.)

A. Router 2
B. Router 3
C. Router 4
D. Router 5
E. Router 7
F. Router 8

Answer: A,C,E

Question No : 2

In which two places is redundancy recommended in an enterprise campus network design? (Choose two.)

A. building distribution
B. campus core
C. building access
D. e-commerce
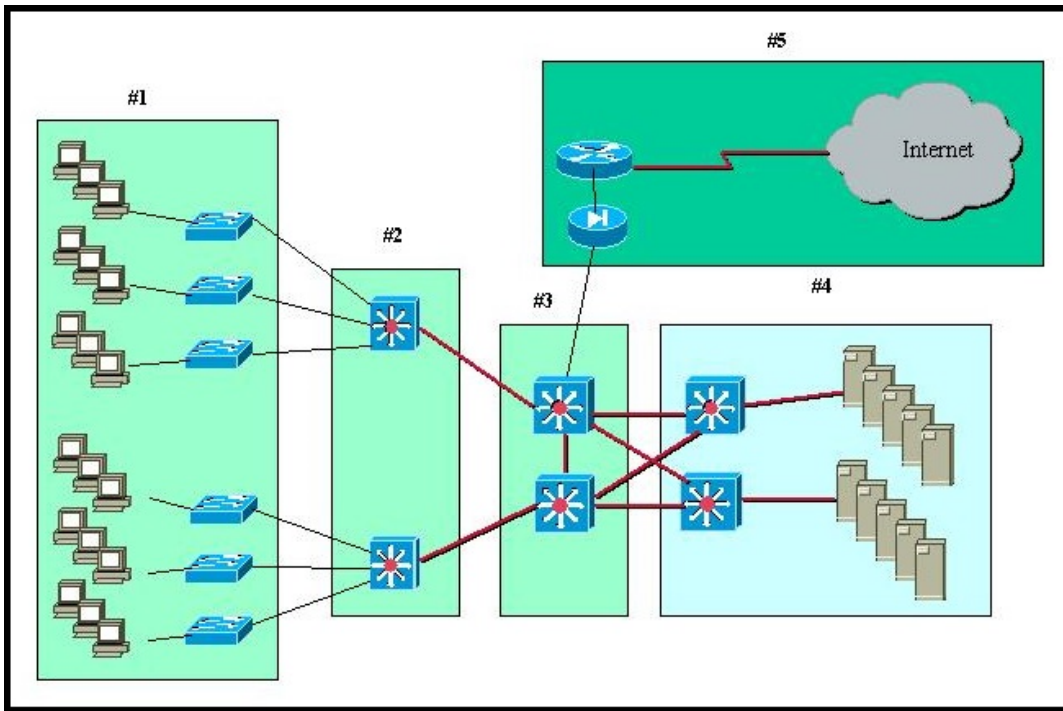**E.** Internet connectivity

Answer: A,B

Question No : 3

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

A. core layer
B. distribution layer
C. access layer
D. aggregation layer
E. network layer
F. Internet layer

Answer: A,B,C

Question No : 4

Refer to the exhibit.

A standard Layer 2 campus network design is pictured. Which numbered box represents the core layer?

A. #1
B. #2
C. #3
D. #4
E. #5

Answer: C

Question No : 5 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	

Answer:

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

Question No : 6

Which RFC defines the IPv6 standard?

A. RFC 1918
B. RFC 2338
C. RFC 2460
D. RFC 2740

Answer: C

Question No : 7

Which option is a benefit of the modular approach to network design?

A. higher availability
B. repeatable scalability
C. increased security
D. improved resiliency

Answer: B

Question No : 8

When there is a need for immunity to EMI for connecting locations that are greater than 100 meters apart, which two solutions can be utilized? (Choose two.)

A. multimode fiber
B. Fibre Channel
C. HVDC transmission lines
D. single-mode fiber
E. serial RS-232
F. Gigabit Ethernet 1000BASE-CX

Answer: A,D

Question No : 9

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

Answer: A,B

Question No : 10

Which statement describes an advantage of the Layer 2 access model over the Layer 3 access model in the data center?

A. It enables NIC teaming.
B. It removes STP dependency.
C. It increases scalability.
D. It decreases convergence.

Answer: A

Question No : 11

What are the three modes of unicast reverse path forwarding? (Choose three.)

A. strict
B. loose
C. VRF
D. global
E. PIM
F. local

Answer: A,B,C

Question No : 12

A data center is reaching its power and cooling capacity. What two virtualization technologies can address the problem by directly reducing the number of physical devices? (Choose two.)

A. virtual switching systems
B. virtual device contexts
C. virtual servers
D. virtual routing and forwarding
E. virtual port channels
F. virtual LANs

Answer: B,C

Question No : 13

When is the Cisco FlexConnect design model recommended?

A. when remote-site APs are centrally managed
B. when each remote site has its own wireless controller
C. when each remote site runs VSS
D. when the remote sites use WAN optimization

Answer: A

Question No : 14

Which option is an advanced congestion management mechanism?

A. weighted fair queuing
B. policing
C. payload compression
D. header compression

Answer: A

Question No : 15

A network engineer requires that an OSPF ASBR must only flood external LSAs only within its own area. What OSPF area type should be configured?

A. Backbone Area
B. Totally Stub Area
C. Not So Stubby Area
D. Stub Area

Answer: C

Question No : 16

Which benefit is an advantage of route summarization?

A. It reduces the size of the routing table.
B. It causes routes to be updated more frequently.
C. It lowers the cost metric.
D. It enables neighbor discovery.

Answer: A

Question No : 17

Which type of structure consists of the addressing, routing protocols, QoS, and security components?

A. logical
B. physical
C. layered
D. virtual

Answer: A

Question No : 18

What design requirement is necessary for campus network access layer switching?

A. high cost per port
B. high availability
C. high scalability
D. high performance

Answer: C

Question No : 19

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.

Answer: A,B,E

Question No : 20

A network engineer is following the Cisco enterprise architecture model. Where are aggregation switches found?

A. Enterprise Campus

B. Enterprise Edge

C. SP Edge WAN

D. Remote Module

Answer: A

Question No : 21

Which three options are characteristics of data center evolution? (Choose three.)

A. consolidation

B. virtualization

C. automation

D. standardization

E. optimization

F. modulation

Answer: A,B,C

Question No : 22

What two configurations are Cisco recommended best practices for user access interfaces? (Choose two.)