

Cisco 300-320 Exam

Volume: 457 Questions

Question: 1

Which network virtualization technology provides logical isolation of network traffic at Layer 3?

- A. VSS
- B. VLAN
- C. VRF-Lite
- D. MEC

Answer: C

Question: 2

Which technology provides a layer 2 loop free and does not contain a port state named "Blocking"?

- A. RPVST+
- B. PVST+
- C. MST
- D. CST

Answer: A

Question: 3

For which engine an IPS can use its reputation awareness? (Choose two)

- A. Reputation filtering
- B. Reputation subscriptions
- C. Correlation rules
- D. Global correlation inspection

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Answer: A,C

Question: 4

A network designer needs to explain the advantages of route summarization to a client. Which two options are advantages that should be included in the explanation? (Choose Two)

- A. Increases security by advertising fake networks.
- B. Reduces routing table size.
- C. Advertises detailed routing size
- D. Utilizes the routers full CPU capacity.
- E. Reduces the upstream impact of a flapping interface.

Answer: B,E

Question: 5

During the design of a new data center, a company requires that access switches be placed only in network racks. Which switch layout must be used?

- A. centralized
- B. integrated
- C. top of rack
- D. end of row

Answer: D

Question: 6

Which VPN technology supports dynamic creation of spoke-to-spoke VPN tunnels to provide a scalable design?

- A. IPsec
- B. GRE over IPsec

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C. DMVPN

D. GRE

Answer: C

Question: 7

Which of the following features might be used by the Enterprise Campus network designer as a means of route filtering?

A. IPv4 static routes

B. Route tagging using a route map in an ACL

C. Tagging routes using the BGP MED

D. EIGRP stub networks

Answer: D

Question: 8

An Engineer is designing a Cisco Application Centric Infrastructure network ... What is the expected number of links between Spine switches?

A. 0

B. 1

C. 2

D. 4

Answer: A

Question: 9

What is one reason to implement Control Plane Policing?

A. allow OSPF routing protocol to advertise routes

B. protect the network device route processor from getting overloaded by rate limiting the

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incoming control plane packets

C. allow network devices to generate and receive packets

D. protect the data plane packets

Answer: B

Question: 10

Which path selection protocol is used by Fibre Channel fabrics?

A. IVR

B. VoQ

C. FSPF

D. VSANs

E. SANTap

Answer: C

Question: 11

Which option is a common cause of congestion found in a campus network?

A. input serialization delay

B. output serialization delay

C. Rx-queue starvation

D. Tx-queue starvation

Answer: D

Question: 12

Which two ways to support secure transport of multicast traffic are true? (Choose two.)

A. Use spoke-to-spoke design.

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- B. Use IPsec over GRE tunnel.
- C. Use GET VPN.
- D. Use NBMA instead of broadcast.
- E. Disable encryption for multicast traffic.

Answer: B,C

Question: 13

To which switch or switches should you provide redundant links in order to achieve high availability with reliable fast convergence in the enterprise campus?

- A. to a core switch running Cisco NSF and SSO from redundant distribution switches connected with a Layer 2 link
- B. to a core switch running Cisco NSF and SSO from redundant distribution switches connected with a Layer 3 link
- C. to two core switches from redundant distribution switches connected with a Layer 2 link
- D. to two core switches from redundant distribution switches connected with a Layer 3 link
- E. to two core switches running Cisco NSF and SSO from two redundant distribution switches running Cisco NSF and SSO

Answer: D

Question: 14

Which three of these Metro service types map to E-Line (versus E-LAN) services that are defined by the Metro Ethernet Forum (MEF)? (Choose three.)

- A. Ethernet Private Line
- B. Ethernet Wire Service
- C. Ethernet Relay Service
- D. Ethernet Multipoint Service

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E. Ethernet Relay Multipoint Service

Answer: A,B,C

Question: 15

What is the primary benefit of deployment MPLS over the WAN as opposed to extending VRF-lite across the WAN?

- A. convergence time
- B. low operating expense
- C. low latency
- D. dynamic fault-tolerance

Answer: B

Question: 16

Which of these is true of IP addressing with regard to VPN termination?

- A. addressing designs need to allow for summarization
- B. termination devices need routable addresses inside the VPN
- C. IGP routing protocols will update their routing tables over an IPsec VPN
- D. designs should not include overlapping address spaces between sites, since NAT is not supported

Answer: D

Question: 17

Which three options are features of IP SLAs? (Choose three.)

- A. enables verification of service guarantees
- B. dynamically adjusts QoS parameters
- C. validates network performance and metrics

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- D. initiates failover for saturated links
- E. proactively identifies network related issues

Answer: A,C,E

Question: 18

Which feature supports multiple routing tables with overlapping networks on a single device?

- A. VRF
- B. Metro Ethernet
- C. RSTP
- D. VSS

Answer: A

Question: 19

Which multicast address must be available for FHRP advertisements in a multivendor environment?

- A. 224.0.0.9
- B. 224.0.0.18
- C. 224.0.0.102
- D. 224.0.0.2

Answer: B

Question: 20

A company requires redundancy for its multihomed BGP external connections. What two features can be configured on the WAN routers to automate failover for both outbound and inbound traffic? (Choose two.)

- A. AS path prepending

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- B. local preference
- C. floating static route
- D. HSRP
- E. MED
- F. weight

Answer: A,B

Question: 21

Which virtualization technology uses Layer 3 BFD to detect network failure between Network devices?

- A. Cisco Fabric path
- B. VXLAN
- C. VSAN
- D. VLAN

Answer: A

Question: 22

You need to design a network with a summary segment that supports up to 15 IP segments and all segments must be /24?

- A. /20
- B. /21
- C. /18
- D. /19

Answer: A

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Question: 23 DRAG DROP

Drag the task on the left to the appropriate layer category on the right.

Use equal-cost, redundant connections to the core.	Access Layer Tuning
Use Rapid PVST+ if STP is required.	
Limit VLANS to a single closet whenever possible.	Distribution Layer Tuning
Tune EtherChannel and Cisco Express Forwarding load balancing to ensure optimum utilization of redundant, equal-cost links.	

Answer:

Use equal-cost, redundant connections to the core.	Access Layer Tuning
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Limit VLANS to a single closet whenever possible.	Distribution Layer Tuning
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Question: 24

A network engineer must provide 40mb connections from the data center to the corporate office and two remote offices. What WAN connectivity option will outsource the routing in cooperation with the service provider?

- A. Ethernet Private Line
- B. Ethernet Multipoint Service
- C. MPLS VPN
- D. VPLS

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Answer: C

Question: 25

Which protocol is used in an in-band network and why?

- A. UDP, because it is connectionless
- B. SSH, because the username and password are encrypted
- C. Telnet, because the username and password are sent in clear
- D. MSDP, because it uses TCP as its transport protocol

Answer: B

Question: 26

What is the recommended subnet between two sites that have a point-to-point connection to conserve IP addresses?

- A. 255.255.255.0
- B. 255.255.252.0
- C. 255.255.255.252
- D. 255.255.255.240

Answer: C

Question: 27

Which L2 messaging protocol maintains VLAN configuration consistency?

- A. VTP
- B. STP
- C. LACP
- D. CDP