300-320 - ARCH Designing Cisco Network Service Architectures

http://www.certleader.com/300-320-dumps.html
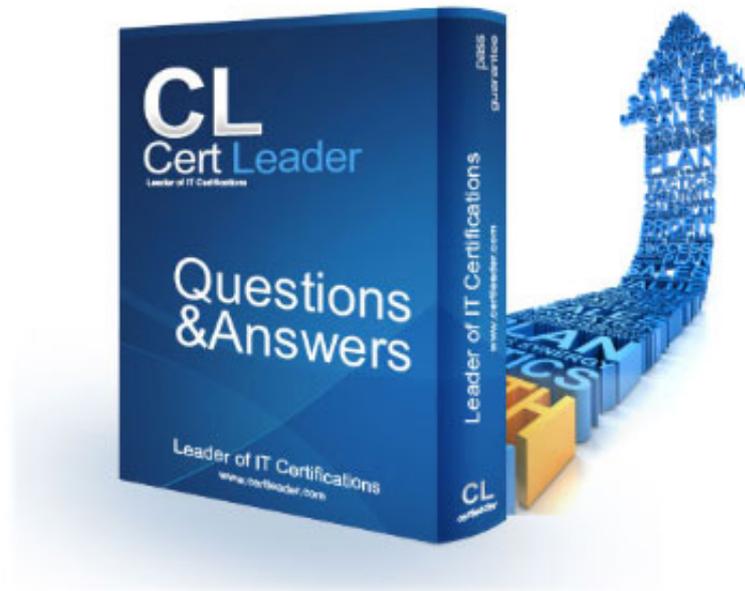
1. Which option lists the EIGRP minimum timer settings for hello and dead timers in seconds?

A. 4 and 6

B. 2 and 4

C. 2 and 6

D. both 6

Answer: C

2. Which two features provide resiliency in a data center? (Choose two.)

A. Cisco FabricPath

B. VTP

C. encryption

D. vPC

E. VRF

Answer: A,D

3. There are 3 steps to confirm whether a range of IP addresses can be summarized. Which of the following is used in each of these 3 steps?

A. The first number in the contiguous block of addresses

B. The last number in the contiguous block of addresses

C. The size of the contiguous block of addresses

D. The subnet mask of the original network address

Answer: C

4. Which option is.correct when.using VSS to combine two physical switches into one logical switch?

A. Both data planes forward traffic simultaneously.

B. Only one data plane forwards traffic, while the other data plane is on standby.

C. Both control planes forward traffic simultaneously.

D. Control planes are combined into one virtual control plane.

Answer: D

5. Why is QoS important for in-band management?

A. It supports remote management when traffic volume is high.

B. It supports proper routing.

C. It supports network security against DoS attacks and worm outbreaks.

D. It supports network redundancy.

Answer: A

6. Given the addresses 10.10.16.0/24 and 10.10.23.0/24, which option is the best summary?

A. 10.10.0.0/16

B. 10.10.8.0/23

C. 10.10.16.0/23

D. 10.10.16.0/21

Answer: D

7. Which two design concerns must be addressed when designing a multicast implementation? (Choose two.)

A. only the low-order 23 bits of the MAC address are used to map IP addresses

B. only the low-order 24 bits of the MAC address are used to map IP addresses

C. only the high-order 23 bits of the MAC address are used to map IP addresses

D. only the low-order 23 bits of the IP address are used to map MAC addresses

E. the 0x01004f MAC address prefix is used for mapping IP addresses to MAC addresses

F. the 0x01005e MAC address prefix is used for mapping IP addresses to MAC addresses

Answer: A,F

8. What network technology provides Layer 2 high availability between the access and distribution layers?

A. HSRP

B. MEC

C. EIGRP

D. GLBP

Answer: B

9. Which three statements about zoning are correct? (Choose three.)

A. Zoning increases security.

B. DNS queries are used for software zoning.

C. Software zoning is more secure than hardware zoning.

D. When using zones and VSANs together, the zone is created first.

E. Zoning requires that VSANs be established before it becomes operational.

Answer: A,B,E

10. With respect to address summarization, which of the following statements concerning IPv4 and IPv6 is true?

A. The potential size of the IPv6 address blocks suggests that address summarization favors IPv6 over IPv4.

B. Role based addressing using wildcard masks to match multiple subnets is suitable for IPv4, but unsuitable for IPv6.

C. In order to summarize, the number of subnets in the IPv4 address block should be a power of 2 while the number of subnets in the IPv6 address block should be a power of 64.

D. WAN link addressing best supports summarization with a /126 subnet for IPv4 and a /31 for IPv6.

Answer: B

11. DRAG DROP

Drag the OSPF technology on the left to the appropriate network convergence step on the right that this technology helps to mitigate.	
CEF	Detect the event
SPF throttling or pacing Timers	Propagate the event
Bidirectional Forwarding Detection	Process the event
LSA Propagation/throttling/pacing Timers	Update forwarding data structures

Answer:

12. Which two protocol characteristics should be most considered when designing a single unified fabric for the Data Center? (Choose two.)

A. FCIP or FCoE allow for easier integration by using the Fibre Channel Protocol (FCP) and Fibre Channel framing

B. iSCSI uses a special EtherType and an additional header containing additional control information

C. FCIP and iSCSI has higher overhead than FCoE owing to TCP/IP

D. FCoE was initially developed to be used as a switch-to-switch protocol, while FCIP is primarily meant to be used as an access layer protocol to connect hosts and storage to a Fibre Channel SAN

E. FCoE requires gateway functionality to integrate into an existing Fibre Channel network

Answer: A,C

13. A Layer 2 switch in the network has recently started broadcasting traffic out of every port and is impacting network performance. The engineering department determines that a MAC overflow attack is the cause. Which two features can protect and mitigate the damage of the attacks? (Choose two.)

A. Storm Control

B. Port Security

C. SPAN

D. BPDU Filters

E. IP Source Guard

F. VACLs

Answer: A,B

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

A. IPsec

B. GRE over IPsec

C. DMVPN

D. GRE

Answer: C

15. A network engineer wants to connect two sites via a WAN technology and to securely pass multicast traffic over this WAN technology. Which WAN technology should be configured?

A. IPsec

B. GRE

C. pure MPLS

D. GRE over IPsec

Answer: D

16. Which option is the Cisco preferred, most versatile, and highest-performance way to deploy IPv6 in existing IPv4 environments?

A. dual stack

B. hybrid

C. service block

D. dual service

Answer: A

17. Which Nexus feature enables you to support server connectivity with one topology and address requirement for both high availability and high bandwidth?

A. vPC

B. vPC+

C. Stackwise

D. EvPC

Answer: D

18. Which statement best describes Cisco OTV internal interfaces?

A. They are Layer 2 interfaces that are configured as either access or trunk interfaces on the switch.

B. They are interfaces that perform Layer 3 forwarding with aggregation switches.

C. They are the interfaces that connect to the ISP.

D. They are tunnel interfaces that are configured with GRE encapsulation.

Answer: A

19. Which option can be implemented to manipulate the election of PIM DR to force multicast traffic to a certain path?

A. Assign a lower PIM DR priority to the PIM DR interface.

B. Assign a lower IP address to the PIM DR interface.

C. Assign a higher PIM DR priority to the PIM DR interface.

D. Increase the cost on the PIM DR interface.

Answer: C

20. Refer to the exhibit.
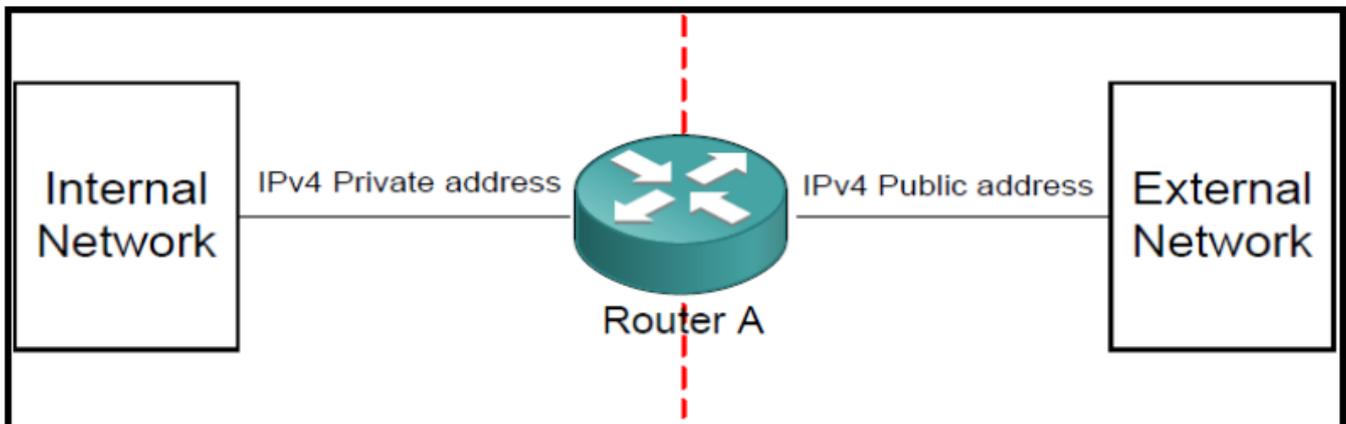
Which functionality must be enabled on router A to connect two networks for translating private addresses into "legal" public addresses on a one-for-one basis?

A. PAT

B. NAT

C. VLAN

D. GARP

E. PPP

Answer: B

21. NBAR is deployed on the network as part of network optimization. Which technology is critical to recognize new applications on the network?

A. PDLM

B. ACLs

C. code upgrade

D. additional licenses

Answer: A

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

A. VSS

B. VLAN

C. VRF-Lite

D. MEC

Answer: C

23. What is the maximum number of neighbors that a router should have in an OSPF area?

A. 5

B. 30

C. 60

D. 99

Answer: C

24. Which configuration represents resiliency at the hardware and software layers?

A. multiple connections and FHRP

B. HSRP and GLBP

C. redundant supervisor and power supplies

D. dual uplinks and switches

Answer: A

25. What is the primary benefit of implementing Virtual Device Contexts on Nexus hardware In a multi-tenant environment?

A. resource isolation

B. software partitioning

C. resource allocation

D. granular monitoring

Answer: A

26. Which statement is the most accurate regarding IPsec VPN design for an Enterprise Campus environment?

A. VPN device IP addressing must align with the existing Campus addressing scheme.

B. The choice of a hub-and-spoke or meshed topology ultimately depends on the number of remotes.

C. Sizing and selection of the IPsec VPN headend devices is most affected by the throughput bandwidth requirements for the remote offices and home worker

D. Scaling considerations such as headend configuration, routing protocol choice, and topology have the broadest impact on the design.

Answer: D

27. Which two VPN solutions extend the routing capabilities of basic IPsec VPNs? (Choose two.)

A. GRE

B. NVI

C. DES

D. VTI

E. AES

Answer: A,D

28. What is the purpose of an OTV edge device?

A. connect to other data centers

B. connect to the access layer

C. connect to the end users

D. connect to mobile devices

Answer: A

29. 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

30. Which option maximizes EIGRP scalability?

A. route redistribution

B. route redundancy

C. route filtering

D. route summarization

Answer: D

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