640-864 51 Questions Designing for Cisco Internetwork Solutions Exam (DESGN) v2.1

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Question 1  
What protocol can be configured to perform this task?  
A network engineer is attempting to separate routing domains using a virtualization technology. 
What protocol can be configured to perform this task?  
A. VLAN  
B. VSAN  
C. VRF  
D. VPC  

Correct Answer: C  
Explanation/Reference:

Question 2  
What two features are advantages of adding a secondary WAN link at the enterprise edge?  
What two features are advantages of adding a secondary WAN link at the enterprise edge? 
(Choose two.)  
A. provides additional bandwidth and load balancing capabilities  
B. acts as a backup link in event the primary link fails  
C. reduces capital and operational costs  
D. improves security and prevents against denial of service attacks  
E. distributes traffic proactively based on link utilization  

Correct Answer: AB  
Explanation/References:

Question 3  
What two CoS values are used by voice traffic?  
What two CoS values are used by voice traffic? (Choose two.)  
A. COS1  
B. COS2  
C. COS3  
D. COS4  
E. COS5  

Correct Answer: CE  
Explanation/Reference:
Question 4
What wireless authentication option requires a Public Key Infrastructure?
A. EAP-TLS
B. PEAP
C. LEAP
D. EAP-FAST

Correct Answer: A
Explanation/Reference:

Question 5
What three migration models would accomplish the organization’s goal?
A. Dual Stack
B. Service Block
C. Top-Down
D. Hybrid
E. Tunneled
F. Fork-Lift

Correct Answer: ABD
Explanation/Reference:

Question 6
What three considerations should be taken into account when selecting a routing protocol?
A. classful routing
B. scalability
C. default route origination
D. multi vendor support
E. link load balancing
F. hop count

Correct Answer: BDE
Explanation/Reference:

Question 7
What type of SFP will be required?
A. TX
B. SX
C. ZX
D. LX
Question 8
What business trend allows employees to use personal devices to access enterprise data and systems?

A. ISE  
B. BYOD  
C. SAN  
D. IOE

Correct Answer: B
Explanation/Reference:

Question 9
What solution meets these requirements?
A customer requests a filtering design based on the need to scan all internet traffic, including remote workers. What solution meets these requirements?

A. Cisco Cloud Web Security  
B. Cisco Network Admission Control  
C. Cisco Identity Services Engine  
D. Cisco Adaptive Security Appliance

Correct Answer: A
Explanation/Reference:

Question 10
What severity level are these messages?
An engineer has configured a router to send level 7 messages to a syslog server. What severity level are these messages?

A. error  
B. warning  
C. debug  
D. informational  
E. notice

Correct Answer: C
Explanation/Reference:

Question 11
What part of the network does a top-down network design focus on for solution development?

A. presentation  
B. hardware  
C. session  
D. application
Question 12
What network virtualization technology can be leveraged within the data center to reduce the number of physical devices?
A. VLANs  
B. VPLS  
C. VDC  
D. VSS
Correct Answer: C
Explanation/Reference:

Question 13
What type of device can be installed to increase a broadcast domain?
A. router  
B. switch  
C. IDS  
D. IPS
Correct Answer: B
Explanation/Reference:

Question 14
What is the first step when creating a network security policy?
A. define what should be protected  
B. investigate how likely an attack is to occur  
C. implement measures to protect assets  
D. hire a security firm to perform penetration tests
Correct Answer: A
Explanation/Reference:

Question 15
What branch design supports 100 to 1000 users and integrates ASA firewalls?
A. small  
B. medium  
C. large  
D. extra large
**Question 16**
How does EIGRP’s metric differ from OSPF?
By default, how does EIGRP’s metric differ from OSPF?
A. hops  
B. cost  
C. bandwidth  
D. delay  
Correct Answer: D  
Explanation/Reference:

**Question 17**
What significant advantage does EIGRP have over OSPF?
A. easy summarization  
B. shorter convergence times  
C. single area operation  
D. low processor utilization  
Correct Answer: B  
Explanation/Reference:

**Question 18**
What two connection types satisfy this requirement?
A remote office has a T1 WAN link to headquarters and a T1 Internet connection. The client requests WAN redundancy to headquarters with similar bandwidth. What two connection types satisfy this requirement? (Choose two.)
A. Secondary T1 WAN circuit  
B. ISDN BRI  
C. IPSec Tunnel over the Internet  
D. DWDM  
E. POTS Line T1 WAN  
Correct Answer: AC  
Explanation/Reference:

**Question 19**
What Cisco product is designed to improve the performance of Windows file and exchange services in remote data centers?
Correct Answer: B  
Explanation/Reference:

**Question 20**  
What two design requirements are unique to this scenario?  
A client wants to consolidate applications that are currently housed at multiple sites to a remote data center. What two design requirements are unique to this scenario? (Choose two.)  
A. bandwidth  
B. security  
C. latency  
D. storage  
E. availability  

Correct Answer: AC  
Explanation/Reference:

**Question 21**  
What two access point modes support the transmission of user traffic over a LWAPP/CAPWAP tunnel?  
What two access point modes support the transmission of user traffic over a LWAPP/CAPWAP tunnel? (Choose two.)  
A. local  
B. H-REAP  
C. rogue detector  
D. monitor  
E. sniffer  
F. standalone  

Correct Answer: AB  
Explanation/Reference:

**Question 22**  
Where should route summarization be implemented?  
A company must deploy an IGP routing protocol on an Enterprise Network. Where should route summarization be implemented?  
A. distribution  
B. core  
C. access  
D. backbone  

Correct Answer: A  
Explanation/Reference:

**Question 23**  
What is the primary advantage of implementing a wireless LAN controller in a wireless LAN design?  
What is the primary advantage of implementing a wireless LAN controller in a wireless LAN design?  
A. roaming between APs
B. RADIUS user authentication  
C. radio resource management  
D. accelerated data transfer  

Correct Answer: C  
Explanation/Reference:

**Question 24**  
What characteristic separates link state routing protocols from a distance vector?  
What characteristic separates link state routing protocols from a distance vector?  
A. creates a topological view of the entire network  
B. path calculation utilizes a more granular metric  
C. does not scale well for large networks  
D. constantly shares link state updates throughout the topology  

Correct Answer: A  
Explanation/Reference:

**Question 25**  
What two design considerations need to be evaluated?  
A client wants to deploy a video conferencing platform in a multisite WAN environment. What two design considerations need to be evaluated? (Choose two.)  
A. CODECs supported by the video units  
B. buffer sizes on the routers  
C. POE capabilities of the switches  
D. number of current calls  
E. number of hops between sites  

Correct Answer: AD  
Explanation/Reference:

**Question 26**  
What type of VPN solution should be implemented?  
A network engineer is designing an enterprise managed VPN solution for a large number of remote offices that do not have on-site IT support and communicate only with the home office. What type of VPN solution should be implemented?  
A. VPLS  
B. GRE  
C. IPsec  
D. EVPN  
E. DMVPN  
F. SSL client  

Correct Answer: D  
Explanation/Reference:

**Question 27**  
What two VPN protocols meet these requirements?  
A secure WAN design requires dynamic routing and IP multicast. What two VPN protocols meet
these requirements? (Choose two.)
A. Standard IPsec
B. P2P GRE over IPsec
C. DMVPN
D. AnyConnect
E. PPTP
F. Easy VPN
G. SSL/TLS

Correct Answer: BC
Explanation/Reference:

**Question 28**
What path will the packet take to reach the destination endpoint in a lightweight wireless deployment?
A wireless LAN client is sending traffic to the wired LAN client. What path will the packet take to reach the destination endpoint in a lightweight wireless deployment?
A. switch > controller > ap > client
B. controller > ap > switch > client
C. ap > controller > switch > client
D. switch > ap > controller > client

Correct Answer: C
Explanation/Reference:

**Question 29**
What IPv4 addressing technique allows for the division of addresses into subnets of different sizes?
What IPv4 addressing technique allows for the division of addresses into subnets of different sizes?
A. VLSM
B. RIR
C. CIDR
D. NAT

Correct Answer: A
Explanation/Reference:

**Question 30**
What routing configuration can prevent routing loops between IGPs?
What routing configuration can prevent routing loops between IGPs?
A. route filters
B. route reflectors
C. auto summarization
D. virtual links

Correct Answer: A
Explanation/Reference:
Question 31
What command should be used to investigate the issue?
An engineer receives a resource utilization alert on a router. What command should be used to investigate the issue?
A. show processes cpu
B. show memory
C. show running-config
D. show version

Correct Answer: A
Explanation/Reference:

Question 32
What submodule is found within the Enterprise Edge module?
A. enterprise WAN
B. remote branch
C. campus IPS
D. building distribution

Correct Answer: A
Explanation/Reference:

Question 33
What three customer supported details identifies network requirements based on the PPDIOO design model?
A. goals
B. budget
C. user needs
D. locations
E. policies
F. tasks

Correct Answer: ABC
Explanation/Reference:

Question 34
What two performance considerations must be taken into account when designing a remote worker access solution?
A. simultaneous VPN connections
B. port density
C. throughput capacity
D. packet size
E. latency

Correct Answer: AC
Question 35
What Layer 2 technology does VRF closely compare?
To what Layer 2 technology does VRF closely compare?
A. VSS
B. VPC
C. VLAN
D. VTP

Correct Answer: C

Explanation/Reference:

Question 36
What technology can be implemented to increase capacity without acquiring another circuit?
A company has dark fiber between headquarters and its data center. It is presently configured as a 10GbE connection. Network utilization shows high utilization on the connection. What technology can be implemented to increase capacity without acquiring another circuit?
A. MPLS
B. DWDM
C. VPLS
D. DMVPN

Correct Answer: B

Explanation/Reference:

Question 37
What type of design would support this requirement?
A network engineer must implement a design where LAN clients are to connect to various access layer devices, while remaining on the same VLAN. What type of design would support this requirement?
A. routed
B. switched
C. tunneled
D. virtual

Correct Answer: B

Explanation/Reference:

Question 38
What three design requirements are key to designing a campus core?
What three design requirements are key to designing a campus core? (Choose three.)
A. low latency
B. access control
C. traffic filtering
D. high speed
E. redundant links
F. QoS tagging
Correct Answer: ADE
Explanation/Reference:

**Question 39**
What device virtualization technology allows for a single point of management and a centralized routing instance?
A. ACE
B. VSS
C. VDC
D. VM

Correct Answer: B
Explanation/Reference:

**Question 40**
Which tier is route summarization implemented?
A. core
B. distribution
C. backbone
D. access

Correct Answer: B
Explanation/Reference:

**Question 41**
What technology can be leveraged to meet this request?
During the design of a new campus network, the customer requests the ability to route overlapping IP addresses. What technology can be leveraged to meet this request?
A. VRF
B. VLANs
C. VSS
D. VPC

Correct Answer: A
Explanation/Reference:

**Question 42**
When evaluating network designs, what indicator demonstrates that the modular approach was followed?
A. ability to scale
B. follows best practices
C. redundant connectivity
D. easy to deploy
Question 43
Which network location should an external DNS server be placed?
In which network location should an external DNS server be placed?
A. campus data center
B. enterprise branch
C. internet
D. remote access

Correct Answer: C
Explanation/Reference:

Question 44
What technology can secure data over an insecure medium and provide WAN redundancy in the event of a primary connection failure?
What technology can secure data over an insecure medium and provide WAN redundancy in the event of a primary connection failure?
A. virtual private network
B. shadow PVC
C. dial-up ISDN
D. GRE Tunnel

Correct Answer: A
Explanation/Reference:

Question 45
What module do network management servers reside?
A network engineer is using the Cisco enterprise architecture model. In what module do network management servers reside?
A. Enterprise Campus
B. Enterprise Edge
C. Remote Modules
D. SP Edge WAN/internet

Correct Answer: A
Explanation/Reference:

Question 46
Which three are features of LWAPP?
Which three are features of LWAPP? (Choose three.)
A. firmware synchronization
B. local management of APs
C. configuration changes manually synced
D. encryption of control channel
E. configuration data only on the WLC
F. wireless control free operation
G. replaces 802.1x for authentication in wireless connections

Correct Answer: ADE
Explanation/Reference:

**Question 47**
Which three are security services offered through Cisco Router Security?
Which three are security services offered through Cisco Router Security? (Choose three.)
A. Trust and Identity
B. Integrated Threat Control
C. Unified Wireless Network Security Solution
D. Secure Connectivity
E. Voice-Messaging Security
F. Endpoint Security
G. Virtual Security Gateway

Correct Answer: ABD
Explanation/Reference:

**Question 48**
When considering the three VoIP design models – single site, centralized multisite, and distributed multisite – which question below would help to eliminate one of the options?
When considering the three VoIP design models – single site, centralized multisite, and distributed multisite – which question below would help to eliminate one of the options?
A. Will the switches be required to provide inline power?
B. Will users need to make offsite calls, beyond the enterprise?
C. Will users require applications such as voice mail and interactive voice response?
D. Are there users whose only enterprise access is via a QoS-enabled WAN?

Correct Answer: D
Explanation/Reference:

**Question 49**
Which two design approaches provide management of enterprise network devices?
Which two design approaches provide management of enterprise network devices? (Choose two.)
A. in-band
B. out-of-line
C. out-of-band
D. in-line

Correct Answer: AC
Explanation/Reference:

**Question 50**
Which two devices would you place in your DMZ to ensure enterprise edge security?
Which two devices would you place in your DMZ to ensure enterprise edge security? (Choose two.)
A. IPS
B. NAC
C. ASA  
D. ACS  
E. WCS

Correct Answer: AC  
Explanation/Reference:

**Question 51**  
Which Cisco Trust and Identity Management solution would you recommend?  
A company is implementing an Identity Management solution with these characteristics: 1) existing AAA Server 2) Cisco Catalyst switches 3) minimal added investments  
Which Cisco Trust and Identity Management solution would you recommend?  
A. NAC Appliance  
B. Cisco IBNS  
C. CSM  
D. Cisco Security MARS

Correct Answer: B  
Explanation/Reference: