# CCNA Discovery 4.1 - CCNA Discovery Answers

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## CCNA 4 Chapter 5 V4.0

Labels: CCNA 4 Chapter 5 V4.0

1

Which rule should be followed when implementing the security requirements of a network design?

Always use a common security plan for all business needs.

As standard practice, lower access restrictions for users if cost is too high.

Avoid reducing security in order to add additional network capabilities.

When possible, implement an IDS to protect users from spam.

2

What limitations of the 2960 switch prevent it from providing the services needed in the
Distribution layer?

It is limited to copper connections.

It does not support QoS.

It does not support voice VLAN capability.

It does not support route summarization.

3

When considering converged network designs, it is important to identify appropriate service
demands. What is a concern when preparing a network design to fit this environment?

business data compensation for sensitivity to noise

location and placement of firewalls

voice-level quality of service

security policy requirements

4

Which three design requirements are implemented at the access layer? (Choose three.)

PoE

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VLANs

high-density routing

packet filtering

rapidly converging routing protocols

QoS traffic classification and marking

5
Refer to the exhibit. Which statement is true regarding how the ISP router filters traffic?

Traffic from the 64.100.0.1 address to any destination on the Internet is denied.

Traffic from any source address entering the ISP router interface s0/0/0 is permitted.

Only traffic with a source address of 64.100.0.1/30 is allowed into the ISP router interface s0/0/0.

All traffic from the 64.100.0.0/21 network can access the Internet.

Traffic from any source address can access the 64.100.0.0/21 network.

6
Which two factors should be considered when designing a wireless LAN that provides seamless
roaming capabilities? (Choose two.)

use of a wireless controller to manage IP addressing

type of routing protocols

location of existing wired clients

coverage

position of MDF

7
What are three features of a Catalyst 2960 switch? (Choose three.)

network layer functionality

redundant power availability

route summarization

SNMP

switch clustering

inter-VLAN routing

8
A company lists this equipment in their network design:
Two Catalyst 4503 Layer 3 switches
One 5500 security appliance firewall
Two Catalyst 6509 switches
Two lightweight access points
Two Catalyst 2960 switches

Which two types of devices would be appropriate to use at the access layer to provide end-user
connectivity? (Choose two.)

Catalyst 4503 switches

Cisco 1841 router

Catalyst 6509 switches

lightweight access points

Catalyst 2960 switches

9
Which two statements are true regarding the following extended ACL? (Choose two.)

access-list 101 deny tcp 172.16.3.0 0.0.0.255 any eq 20
access-list 101 deny tcp 172.16.3.0 0.0.0.255 any eq 21
access-list 101 permit ip any any

FTP traffic originating from network 172.16.3.0/24 is denied.

All traffic is implicitly denied.

FTP traffic destined for the 172.16.3.0/24 network is denied.

Telnet traffic originating on network 172.16.3.0/24 is denied.

Web traffic originating from 172.16.3.0 is permitted.

10
Which statement applies to a large network with thousands of nodes?

Each wireless phone is normally in a separate VLAN for security reasons.

Multiple firewalls exist throughout the access layer for maximum security protection.

Firewalls cannot be implemented in the multilayer switches and routers.

Intrusion detection is more likely to be performed by a separate device rather than integrated into a switch or router

11
on campus. The college currently has only wired network device access. Which two devices must
be incorporated into the network design to best accommodate roaming for wireless IP phones?(Choose two.)

voice VLAN capable switch

autonomous AP

PoE switch

Cisco wireless LAN controller

2960 switch with 48 100-Mb ports

lightweight access points

12
What type of WAN service is Frame Relay?

dedicated

cell switched

packet switched

circuit switched

13
Refer to the exhibit. What is an advantage of having two links connected between the two
switches shown?

provides redundancy in case one of the switches fails

provides connectivity to Switch1 when the link to the server fails

provides connectivity when one of the connections between the switches fails

provides power to the other switch when the other switch has lost AC power

14
What is the function of the access layer in the Cisco three-layer hierarchical internetworking model?

provides QoS classification and marking

implements a fast-converging routing protocol

uses routed interconnections between devices

aggregates traffic and performs route summarization

15
When applying network security, what security measure should be implemented first?

securing the network devices

implementing the firewalls or filters at the enterprise edge

applying security to resources accessed by internal users

applying ACLs to the interfaces of the routers in the internal network

16
What characteristic of a network supports high availability?

VPNs

high-bandwidth paths to servers

redundancy

wireless management

17
What is integrated into a Cisco IP phone to reduce the number of ports needed in the wiring closet?

hub

router

switch

firewall appliance

18
Which network design process identifies where to place access points?

site survey

risk assessment

scalability design

network protocol analysis

19
Using expandable, modular network devices is a key element of what network design criteria?

availability

performance

scalability

security

20
What is a primary function of a wireless LAN controller?

tuning each AP channel for optimal coverage

providing PoE to the wireless clients

distributing VLAN information to the wireless clients

serving as the point of connection between wireless clients and the wired LAN

21
What characteristic in a routing protocol allows it to support the network design criteria for availability?

CIDR support

fast convergence

timed updates

VLSM suppor

22
A network designer is evaluating the network security implementation for an organization. The designer recommends adding network security devices in front of the server farm, although network security devices have been deployed in the Enterprise Edge for two years. What type of attack can be effectively prevented with this recommendation?

virus attack

internal attack

Internet attack

phishing attack

23
Refer to the exhibit. The branch office needs constant access to the servers in the enterprise headquarters. Therefore, a backup Frame Relay link is added. A network administrator is configuring the routers in the branch office to make sure that when the backup Frame Relay link is used, only the traffic to access the enterprise headquarters is allowed. Which statement is true about the routing configuration on branch office edge routers?

The command ip route 0.0.0.0 0.0.0.0 serial 0/0 50 should be configured on BE2.

The command ip route 128.107.0.0 255.255.0.0 serial 0/0 50 should be configured on BE1.

The command ip route 128.107.0.0 255.255.0.0 serial 0/0 50 should be configured on BE2.

The command ip route 192.135.250.0 255.255.255.0 serial 0/0 50 should be configured on BE1.

24
An automobile sales company is establishing a new, small sales showroom in a downtown area. To update the inventory database, the new sales office will need a WAN connection to the headquarters that is located in the suburban area. The WAN connection should be around a 4 Mb/s connection. Which WAN service will provide the most economical approach to meet the requirement?

DSL

ATM

T1 line

Frame Relay

25
A network designer is selecting a WAN technology for connections between the headquarters of an organization and its branch offices. In this context, what is one advantage of choosing Frame Relay over a T1 line?

more secure

flexible bandwidth

shared media across the link

efficiency with fixed length packet size