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CCNAv5 Routing and Switching Exam Answers

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CCNA 4 Final Exam – Connecting Networks (Version 5.02)

1 Why is it useful categorize networks by size when discussing network design?

Knowing the number of connected devices will define how many additional layers will be added to the three-tier hierarchical network design.

Knowing the number of connected devices will define how many multilayer switches will be necessary at the core layer.

A high-level redundancy at the access layer may be better implemented if the number of connected devices is know.

The complexity of networking infrastructure will vary according to the number of connected devices.*

2 Which two statements are true regarding a PPP connection between two Cisco routers? (Choose two.)

Only a single NCP is allowed between the two routers.
NCP terminates the link when data exchange is complete.
With CHAP authentication, the routers exchange plain text passwords.
LCP tests the quality of the link.*
LCP manages compression on the link.*

3 What is a disadvantage of a packet-switched network compared to a circuit-switched network?

fixed capacity

higher latency*

less flexibility

higher cost

4 Which statement describes a characteristic of dense wavelength division multiplexing (DWDM)?
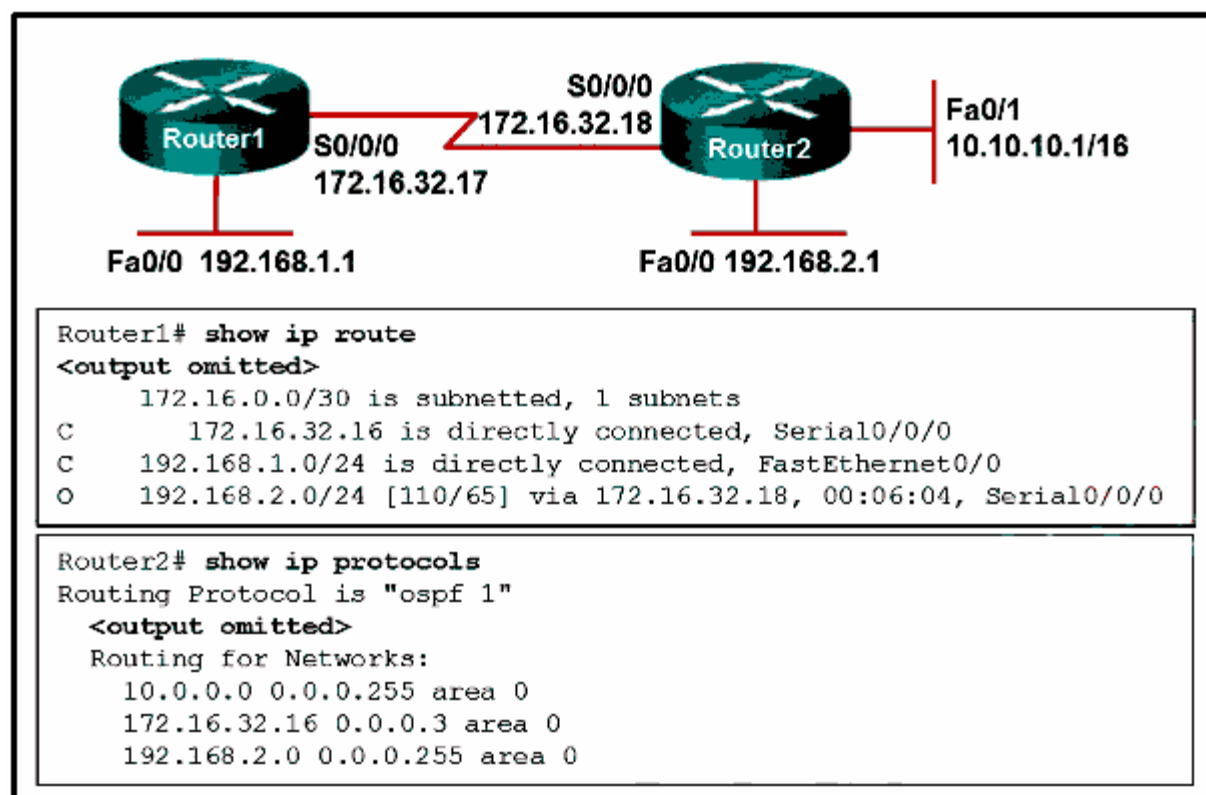
it assigns incoming electrical signals to specific frequencies.

it can be used in long-range communications, like connections between ISPs.*

it enables bidirectional communications over one pair of copper cables.

it supports the SONET standard, but not the SDH standard.

5


```
Router1# show ip route
<output omitted>
     172.16.0.0/30 is subnetted, 1 subnets
C       172.16.32.16 is directly connected, Serial0/0/0
C     192.168.1.0/24 is directly connected, FastEthernet0/0
O     192.168.2.0/24 [110/65] via 172.16.32.18, 00:06:04, Serial0/0/0

Router2# show ip protocols
Routing Protocol is "ospf 1"
  <output omitted>
  Routing for Networks:
    10.0.0.0 0.0.0.255 area 0
    172.16.32.16 0.0.0.3 area 0
    192.168.2.0 0.0.0.255 area 0
```

Refer to the exhibit. A network administrator is troubleshooting the OSPF network. The 10.10.0.0/16 network is not showing up in the routing table of Router1. What is the probable cause of this problem?

The OSPF process is configured incorrectly on Router1.

There is an incorrect wildcard mask statement for network 10.10.0.0/16 on Router2.*

The OSPF process is not running on Router2.

The serial interface on Router2 is down.

6 The security policy in a company specifies that the staff in the sales department must use a VPN to connect to the corporate network to access the sales data when they travel to meet customers. What component is needed by the sales staff to establish a remote VPN connection?

VPN appliance
VPN concentrator
VPN client software*
VPN gateway

7 A network administrator is troubleshooting the dynamic NAT that is configured on router R2. Which command can the administrator use to see the total number of active NAT translations and the number of addresses that are allocated from the NAT pool?

R2# show ip nat translations
R2# clear ip nat translation
R2# show running-config
R2# show ip nat statistics*

8 Which three parts of a Frame Relay Layer 2 PDU are used for congestion control? (Choose three.)

the FECN bit*
the BECN bit*
the C/R bit
the 10-bit DLCI
the Extended Address field
the DE bit*

9 Which two statements correctly describe asymmetric encryption used with an IPsec VPN? (Choose two.)

The same encryption keys must be manually configured on each device.
Public key encryption is a type of asymmetric encryption.*
Encryption and decryption use a different key.*
A shared secret key is used to perform encryption and descryption.
AES is an example of an asymmetric encryption protocol.

10 Which WAN technology can serve as the underlying network to carry multiple types of network traffic such as IP, ATM, Ethernet, and DSL?

MPLS*
ISDN
Ethernet WAN
Frame Relay

11 Drag and droop

Match the characteristic to the appropriate authentication protocol. (Not all options are used.)

Options	PAP characteristics	CHAP characteristics
uses two-way handshake	PAP	CHAP
uses three-way handshake	PAP	CHAP
repeated challenges	PAP	CHAP
single challenge	PAP	CHAP
strong authentication		
weak authentication		
clear text passwords		
encrypted passwords		
uses a one-way handshake		

Place the options in the following order:

PAP Characteristics

uses two-way handshake

single challenge

weak authentication

clear text passwords

CHAP Characteristics

uses three-way handshake

repeated challenges

strong authentication

encrypted passwords

12 Which command can be used to check the information about congestion on a Frame Relay link?

show frame-relay lmi

show interfaces

show frame-relay pvc*

show frame-relay map

13 Which two statements describe remote access VPNs? (Choose two.)

Client software is usually required to be able to access the network.*
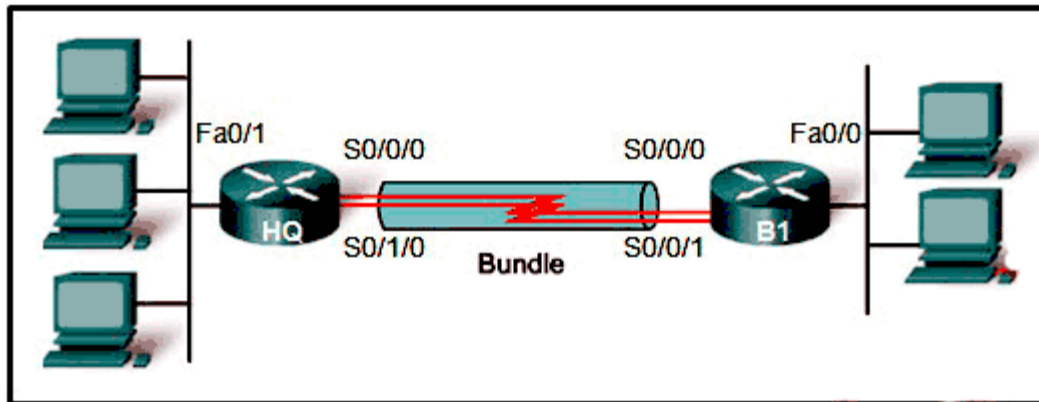
Remote access VPNs are used to connect entire networks, such as a branch office to headquarters.

Remote access VPNs support the needs of telecommuters and mobile users.*

A leased line is required to implement remote access VPNs.

End users are not aware that VPNs exists.

14

Refer to the exhibit. Which three steps are required to configure Multilik PPP on the HQ router? (Choose three.)

Bind the multilink bundle to the Fast Ethernet interface.

Enable PPP encapsulation on the multilink interface.

Assign the serial interfaces to the multilink bundle.*

Create and configure the multilink interface.*

Assign the Fast Ethernet interface to the multilink bundle

Enable PPP encapsulation on the serial interfaces.*

15 What are two examples of network problems that are found at the data link layer? (Choose two.)

incorrect interface clock rates

late collisions and jabber

framing errors*

electromagnetic interface

encapsulation errors*

16 What is the protocol that provides ISPs the ability to send PPP frames over DSL networks?

CHAP

ADSL

PPPoE*

LTE

17 What is required for a host to use an SSL VPN to connect to a remote network device?

The host must be connected to wired network.

A site-to-site VPN must be preconfigured.

A web browser must be installed on the host.*

VPN client software must be installed.

18

```
Edge_Router(config)# interface serial 0/1/0
Edge_Router(config-if)# ip address 192.168.14.1 255.255.255.252
Edge_Router(config-if)# encapsulation frame-relay ietf
Edge_Router(config-if)# frame-relay map ip 192.168.14.5 201
Edge_Router(config-if)# frame-relay lmi-type q933a
Edge_Router(config-if)# exit
Edge_Router(config)# router ospf 10
Edge_Router(config-router)# network 192.168.14.0 0.0.0.3 area 0
Edge_Router(config-router)# passive-interface serial 0/1/1
Edge_Router(config-router)# exit
Edge_Router(config)#
```

Refer to the exhibit. A network administrator has implemented the configuration in the displayed output. What is missing from the configuration that would be preventing OSPF routing updates from passing to the Frame Relay service provider?

The command to disable split horizon has not been issued.

The passive-interface command has not been issued on interface serial 0/1/0

The directly connected neighbor should have been identified by using static mapping.

The broadcast keyword has not been issued.*

19

```
R1# show running-config

<output omitted>

ip nat pool OUTSIDE_POOL 209.165.200.230 209.165.200.240 netmask 255.255.255.224
ip nat inside source list 1 pool OUTSIDE_POOL
!
interface fastethernet0/0
 ip address 209.165.200.229 255.255.255.224
 ip nat outside
!
interface fastethernet0/1
 ip address 192.168.16.1 255.255.0.0
 ip nat inside
!
access-list 10 permit 192.168.0.0 0.0.255.255

<output omitted>
```

Refer to the exhibit. An administrator is configuring NAT to provide Internet access to the inside

network. After the configurtation is completed, users are unable to access the internet. What is the cause of the problem?

The inside and outside interfaces are backwards.

The ACL is referencing the wrong network address.

The NAT inside source command is referring to the wrong ACL.*

The NAT pool is using an invalid address range.

20 A company connects to one ISP via multiple connections. What is the name given to this type of connection?

multihomed

single-homed

dual-multihomed

dual-homed*

21

```
C:\Windows\system32> tracert 192.168.100.1
Tracing route to 192.168.100.1 over a maximum of 30 hops
1    1 ms    <1 ms    <1 ms     10.10.10.10
2    2 ms     2 ms     1 ms     192.168.1.22
3    2 ms     2 ms     1 ms     192.168.1.62
4     2 ms     2 ms     1 ms      172.16.1.1
5     2 ms     2 ms     1 ms      192.168.100.1
Trace complete.
```

Refer to the exhibit. On the basis of the output, which two statements about network connectivity are correct? (Choose two.)

There is connectivity between this device and the device at 192.168.100.1.*

The average transmission time between the two hosts is 2 miliseconds.

This host does not have a default gateway configured.

The connectivity between these two hosts allows for videoconferencing calls.

There are 4 hops between this device and the device at 192.168.100.1.*

22 A network administrator is configuring a PPP link with the commands:

R1(config-if)# encapsulation ppp

R1(config-if)# ppp quality 70

What is the effect of these commands?

The NCP will send a message to the sending device if the link usage reaches 70 percent.

The PPP link will be closed down if the link quality drops below 70 percent.*

The LCP establishment phase will not start until the bandwidth reaches 70 percent or more.

The PPP link will not be established if more than 30 percent of options cannot be accepted.

23 Which IEEE standard defines the WiMax technology?

802.5

802.11

802.16*

802.3

24 Which three flows associated with consumer applications are supported by NetFlow collectors? (Choose three.)

accounting*

network monitoring*

error correction

bandwidth regulation

quality of service

billing*

25

```
R1(config)# ip nat inside source static tcp 10.1.1.1 23 209.165.201.25 2323
```

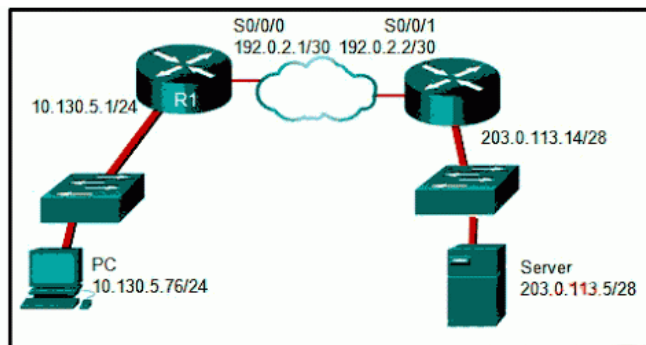## Refer to the exhibit. What kind of NAT is being configured on R1?

NAT overload

dynamic NAT

port forwarding*

PAT

26

Refer to the exhibit. The PC is sending a packet to the Server on the remote network. Router R1 is performing NAT. From the perspective of the PC, match the NAT address type with the correct IP address. (Not all options are used.)

Inside global		203.0.113.5
Outside global		203.0.113.14
Inside local		192.0.2.2
Outside local		192.0.2.1
		10.130.5.1
		10.130.5.76

Place the options in the following order:

Outside global

- not scored -

Outside local

Inside global

- not scored -

Inside local

27 What is the default location for Cisco routers and switches to send critical logging events?

syslog server
virtual terminal
console port*
auxiliary port

28 In the data gathering process, which type of device will listen for traffic, but only gather traffic statistics?

SNMP agent

NetFlow collector*
syslog server
NMS

29 What is a characteristic of Frame Relay that allows customer data transmissions to dynamically "burst" over their CIR for short periods of time?

The combination of LMI status messages and Inverse ARP messages enables the CIR to be exceeded.
The physical circuits of the Frame Relay network are shared between subscribers and there may be times when unused bandwidth is available.*
BECN and FECN messages notify the router that the CIR can be exceeded.
Bursting is enabled by the configuration of multiple subinterfaces on one physical interface.

30 Which SNMP message type informs the network management system (NMS) immediately of certain specified events?

GET response
SET request
GET request
Trap*

31 Which statement is a characteristic of SNMP MIBs?

The SNMP agent uses the SNMP manager to access information within the MIB.
The MIB structure for a given device includes only variables that are specific to that device or vendor.
The MIB organizes variables in a flat manner.
The NMS must have access to the MIB in order for SNMP to operate properly.*

32 What benefit does NAT64 provide?

It allows sites to connect IPv6 hosts to an IPv4 network by translating the IPv6 addresses to IPv4 addresses.*
It allows sites to connect multiple IPv4 hosts to the Internet via the use of a single public IPv4 address.
It allows sites to use private IPv4 addresses, and thus hides the internal addressing structure form hosts on public IPv4 networks.
It allows sites to use private IPv6 addresses and translates them to global IPv6 addresses.

33 What is the expected behavior of an ADSL service?

The user can select the upload and download rates based on need.
The download and upload rates are the same.

The upload rate is faster than the download rate.

The download rate is faster than the upload rate.*

34 The DLCI number assigned to a Frame Relay circuit is to be manually added on a point-to-point link. Which three subinterface commands could be used to complete the configuration? (Choose three.)

frame-relay map ip ip-address dlci

frame-relay map ip ip-address dlci broadcast

no shutdown

ip address ip-address mask*

encapsulation farme-relay

bandwidth kilobits*

frame-relay interface dlci dlci*

35 A group of Windows PCs in a new subnet has been added to an Ethernet network. When testing the connectivity, a technician finds that these PCs can access local network resources but not the Internet resources. To troubleshoot the problem, the technician wants to initially confirm the IP address and DNS configurations on the PCs, and also verify connectivity to the local router. Which three Windows CLI commands and utilities will provide the necesary information? (Choose three.)
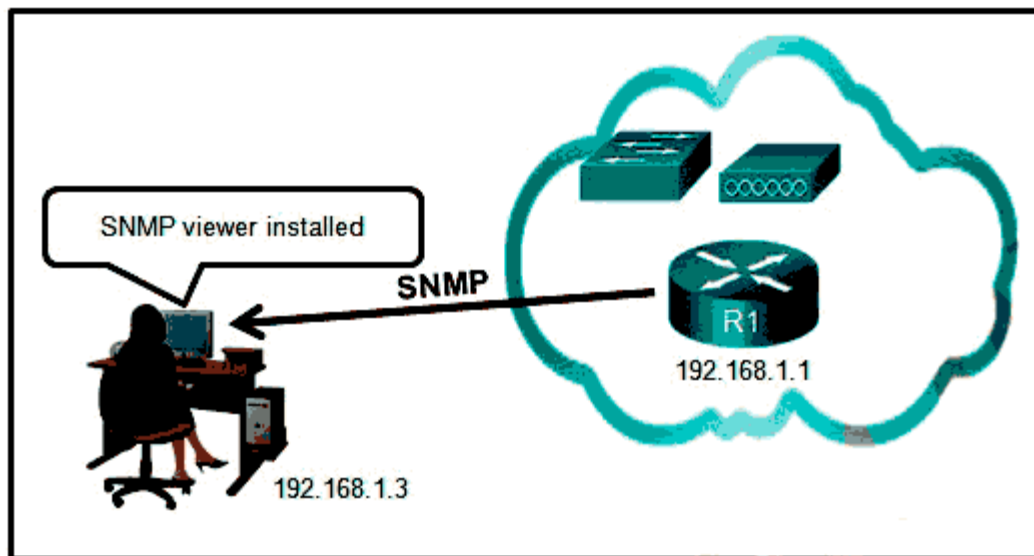
tracert

telnet

ping*

netsh interface ipv6 show neighbor

nslookup*

arp -a

ipconfig*

36

Refer to the exhibit. Router R1 was configured by a network administrator to use SNMP version 2. The following commands were issued:

R1(config)# snmp-server community batonaug ro SNMP_ACL

R1(config)# snmp-server contact Wayne World

R1(config)# snmp-server host 192.168.1.3 version 2c batonaug

R1(config)# ip access-list standard SNMP_ACL

R1(config-std-nacl)# permit 192.168.10.3

Why is the administrator not able to get any information from R1?

The snmp-server community command needs to include the rw keyword.

The snmp-server location command is missing.

There is a problem with the ACL configuration.*

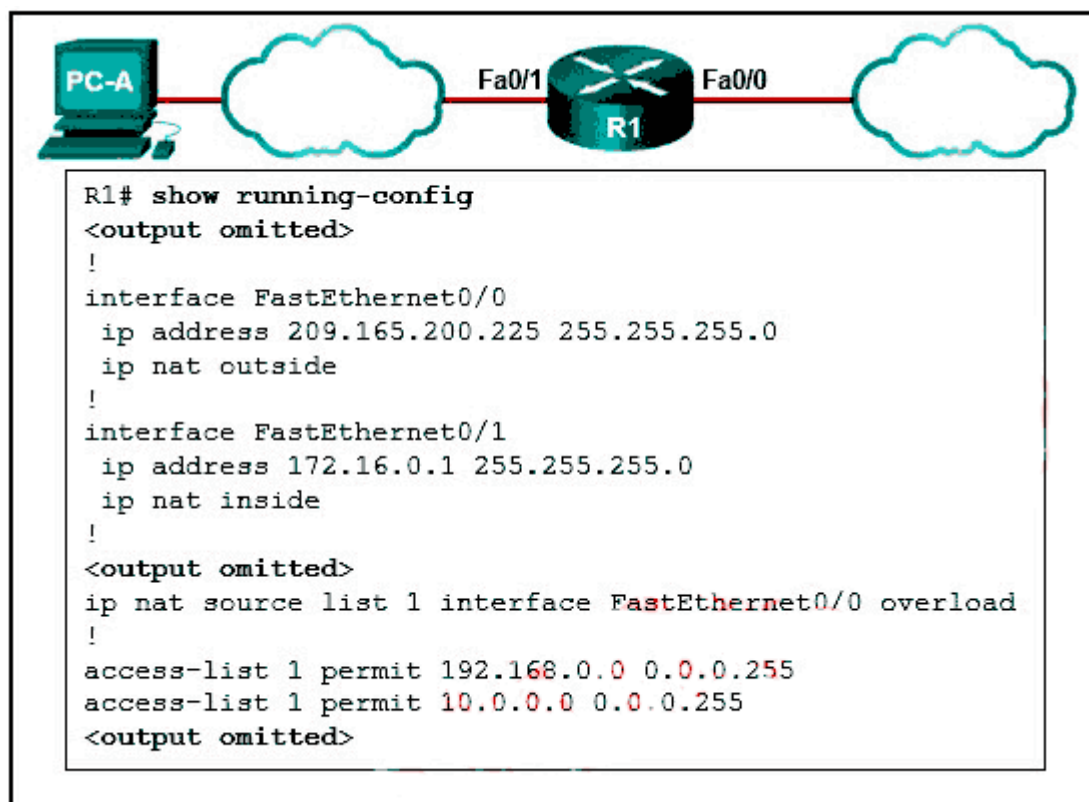The snmp-server enable traps command is missing.

37 Which broadband technology would be best for a small office that requires fast upstream connections?

DSL

Cable

fiber-to-the-home*

WiMax

38

```
R1# show running-config
<output omitted>
!
interface FastEthernet0/0
 ip address 209.165.200.225 255.255.255.0
 ip nat outside
!
interface FastEthernet0/1
 ip address 172.16.0.1 255.255.255.0
 ip nat inside
!
<output omitted>
ip nat source list 1 interface FastEthernet0/0 overload
!
access-list 1 permit 192.168.0.0 0.0.0.255
access-list 1 permit 10.0.0.0 0.0.0.255
<output omitted>
```

Refer to the exhibit. The inside local IP address of PC-A is 192.168.0.200. What will be the inside global address of packets from PC-A after they are translated by R1?

192.168.0.1

172.16.0.1

209.165.200.225*

10.0.0.1

192.168.0.200

39 What is a type of VPN that is generally transparent to the end user?

remote access

public

site-to-site*

private

40 Which two statements about DSL are true? (Choose two.)

user connections are aggregated at a DSLAM located at the CO*

uses RF signal transmission

users are on a shared medium

local loop can be up to 3.5 miles (5.5km)*

physical and data link layers are defined by DOCSIS

41

```
R1(config)# logging 192.168.1.5
R1(config)# logging trap 3
R1(config)# logging source-interface GigabitEthernet 0/1
```

Refer to the exhibit. Which three events will occur as a result of the configuration shown on R1? (Choose three.)

Only traffic that originates from the GigabitEthernet 0/1 interface will be monitored.*

Messages that are sent to the syslog server will be limited to levels 3 or lower.*

Messages that are sent to the syslog server will use 192.168.1.5 as the destination IP address.*

The syslog messages will contain the IP address the GigabitEthernet 0/1 interface.

Messages that are sent to the syslog server will be limited to levels 3 and higher.

For multiple occurrences of the same error, only the first three messages will be sent to the server.

42 Which two characteristics describe time-division multiplexing? (Choose two.)

Traffic is allocated bandwidth across a single wire based on preassigned time slots.*

Bandwidth is allocated to channels based on whether a station has data to transmit.

Encoding technology provides high data throughput in a minimum RF spectrum by supporting parallel data transmission.

Data capacity across a single link increases as bits from multiple sources are transmitted using interleaved slices of time.*

Depending on the configured layer 2 protocol, data is transmitted across two or more channels via the use of time slots.

43 Which two specialized troubleshooting tools can monitor the amount of traffic that passes through a switch? (Choose two.)

TDR

DTX cable analyzer

NAM*

digital multimeter

portable network analyzer*

44 Which circumstance would result in an enterprise deciding to implement a corporate WAN?

when its employees become distributed across many branch locations*

when the enterprise decides to secure its corporate LAN

when the network will span multiple buildings

when the number of employees exceeds the capacity of the LAN

45 Which algorithm is considered insecure for use in IPsec encryption?

RSA

3DES*

SHA-1

AES

46 What is one advantage to designing networks in bulding block fashion for large companies?

fewer required physical resources

increased network access time

coarse security control

failure isolation*

47 Which two technologies are implemented by organizations to support teleworker remote connections? (Choose two.)

CMTS

VPN*

CDMA

IPsec*

DOCSIS

48 A branch office uses a leased line to connect to the corporate network. The lead network engineer confirms connectivity between users in the branch office, but none of the users can access corporate headquarters. System logs indicate that nothing has changed in the branch office network. What should the engineer consider next to resolve this network outage?

The network technician for the branch office should troubleshoot the switched infrastructure.

The server administrator in the branch office should reconfigured the DHCP server.

The service provider for the branch office should troubleshoot the issue starting from the point of demarcation.*

The system administartor in the branch office should reconfigure the default gateway on the user PCs.

49

```
CORP# show interface Tunnel1
Tunnel1 is up, line protocol is up (connected)
  Hardware is Tunnel
  Internet address is 10.1.1.1/30
  MTU 17916 bytes, BW 100 Kbit/sec, DLY 50000 usec,
      reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation TUNNEL, loopback not set
  Keepalive not set
  Tunnel source 209.165.202.133, destination 209.165.202.134
  Tunnel protocol/transport GRE/IP
    Key disabled, sequencing disabled
    Checksumming of packets disabled
  Tunnel TTL 255
  Fast tunneling enabled
  Tunnel transport MTU 1476 bytes
  Tunnel transmit bandwidth 8000 (kbps)
  Tunnel receive bandwidth 8000 (kbps)
<output omitted>
```

Refer to the exhibit. Which IP address is configured on the physical interface of the CORP router?

10.1.1.1

209.165.202.134

10.1.1.2

209.165.202.133*

50 How many 64 kb/s voice channels are combined to produce a T1 line?

8

32

24*

16

51 Which network module maintains the resources that employees, partners, and customers rely on to effectively create, colaborate, and interact with information?

services

access-distribution

data-center*

enterprise edge

52 Which broadband solution is appropriate for a home user who needs a wired connection not limited by distance?

ADSL

cable*

DSL

WiMax

53 A network administrator is asked to design a system to allow simultaneous access to the Internet for 250 users. The ISP can only supply five public IP addresses for this network. What technology can the administrator use to accomplish this task?

classless interdomain routing

variable length subnet masks

classful subnetting

port-based Network Address Translation*

54 What is the purpose of a message hash in a VPN connection?

It ensures that the data is coming from the correct source.

It ensures that the data cannot be duplicated and replayed to the destination.

It ensures that the data has not changed while in transit.*

It ensures that the data cannot be read in plain text.

55 Which type of traffic would most likely have problems when passing through a NAT device?

DNS

Telnet

HTTP

ICMP

IPsec*

56 Users are reporting longer delays in authentication and in accessing network resources during certain time periods of the week. What kind of information should network engineers check to find out if this situation is part of a normal network behavior?

network configuration files

syslog records and messages

debug output and packet captures

the network performance baseline*

57 What are three benefits of using Frame Relay for WAN connectivity? (Choose three.)

mature technology*

QoS support using the IP precedence field

integrated encryption

one physical interface that can be used for several circuits*

reasonable cost*

seamless direct connectivity to an Ethernet LAN

58 What type of information is collected by Cisco NetFlow?

interface errors

traffic statistics*

memory usage

CPU usage

59 Which technology requires the use of PPPoE to provide PPP connections to customers?

dialup ISDN modem

T1

DSL*

dialup analog modem

60 Under which two categories of WAN connections does Frame Relay fit? (Choose two.)

packet-switched*

private infrastructure*

public infrastructure

Internet

dedicated

61 What are three characteristics of the generic routing encapsulation (GRE) protocol? (Choose three.)

GRE tunnels support multicast traffic.*

GRE creates additional overload for packets that are traveling through the VPN.*

GRE uses AES for encryption unless otherwise specified

By default, GRE does not include any flow control mechanisms.*

Developed by the IETF, GRE is a secure tunneling protocol that was designed for Cisco routers.

GRE provides encapsulation for a single protocol type that is traveling through the VPN.

62 An intercity bus company wants to offer constat Internet connectivity to the users traveling on the buses. Which two types of WAN infrastructure would meet the requirements? (Choose two.)

cellular*

dedicated

private infrastructure

circuit-switched

public infrastructure*

63 What is used as the default event logging destination for Cisco routers and switches?

syslog server

terminal line

workstation

console line*

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