

CCNA v6.0 Exam 2020

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CCNA4 v6.0 Final Exam Full 100% 2017

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CCNA4 v6.0 Final Exam **Form A** Full 100% 2017

1. Question

Which statement best describes a WAN?

- ☒ A WAN interconnects LANs over long distances.
- ☐ A WAN is a public utility that enables access to the Internet.
- ☐ WAN is another name for the Internet.
- ☐ A WAN is a LAN that is extended to provide secure remote network access.

2. Question

Connecting offices at different locations using the Internet can be economical for a business. What are two important business policy issues that should be addressed when using the Internet for this purpose? (Choose two.)

- ☐ addressing
- ☐ bandwidth
- ☒ privacy
- ☒ security
- ☐ WAN technology

3. Question

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

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- ☐ higher cost
- ☐ fixed capacity
- ☐ less flexibility
- ☒ higher latency

4. Question

A company is considering updating the campus WAN connection. Which two WAN options are examples of the private WAN architecture? (Choose two.)

- ☐ cable
- ☒ leased line
- ☒ Ethernet WAN
- ☐ municipal Wi-Fi
- ☐ digital subscriber line

5. Question

Which statement describes a characteristic of dense wavelength division multiplexing (DWDM)?

- ☐ It supports the SONET standard, but not the SDH standard.
- ☐ It enables bidirectional communications over one pair of copper cables.
- ☒ It can be used in long-range communications, like connections between ISPs.
- ☐ It assigns incoming electrical signals to specific frequencies.

6. Question

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

- ☐ ISDN
- ☒ MPLS
- ☐ Frame Relay
- ☐ Ethernet WAN

7. Question

[7.7.2.6 Lab – Investigate Support Websites Answers – ITE v7.0](#)

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Which two WAN technologies are more likely to be used by a business than by teleworkers or home users? (Choose two.)

- ☐ cable
- ☐ DSL
- ☒ Frame Relay
- ☒ MetroE
- ☐ VPN

8. Question

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 gateway
- ☐ VPN appliance
- ☐ VPN concentrator
- ☒ VPN client software

9. Question

A corporation is searching for an easy and low cost solution to provide teleworkers with a secure connection to headquarters. Which solution should be selected?

- ☐ dial-up connection
- ☐ leased line connection
- ☐ site-to-site VPN over the Internet
- ☒ remote access VPN over the Internet

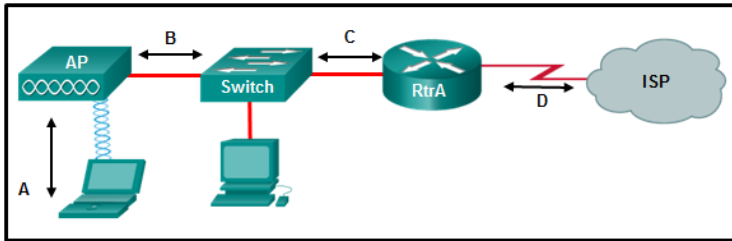
10. Question

How many DS0 channels are bundled to produce a 1.544 Mbps T1 line?

- ☐ 2
- ☐ 12
- ☒ 24
- ☐ 28

11. Question

Refer to the exhibit. Which type of Layer 2 encapsulation used for connection D requires Cisco routers?



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- ☐ Ethernet
- ☐ PPPoE
- ☒ HDLC
- ☐ PPP

12. Question

Which three statements are true about PPP?
(Choose three.)

- ☒ PPP can use synchronous and asynchronous circuits.
- ☐ PPP can only be used between two Cisco devices.
- ☐ PPP carries packets from several network layer protocols in LCPs.
- ☒ PPP uses LCPs to establish, configure, and test the data-link connection.
- ☒ PPP uses LCPs to agree on format options such as authentication, compression, and error detection.

13. Question

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

- ☐ The NCP will send a message to the sending device if the link usage reaches 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.

14. Question

What function is provided by Multilink PPP?

- ☒ spreading traffic across multiple physical WAN links
- ☐ dividing the bandwidth of a single link into separate time slots
- ☐ enabling traffic from multiple VLANs to travel over a single Layer 2 link
- ☐ creating one logical link between two LAN switches via the use of multiple physical links

15. Question

The graphic shows two boxes. The first box has the following output:
R1(config)# show running-config

<output omitted>

username r2 password 0 Cisco

!

interface Serial0/0/0

ip address 209.165.200.225 255.255.255.252

encapsulation ppp

ppp authentication chap

The second box has this output:
R2(config)# show running-config

<output omitted>

username r1 password 0 Cisco

!

interface Serial0/0/0

ip address 209.165.200.226 255.255.255.252

encapsulation ppp

ppp authentication chap

Refer to the exhibit. A network administrator is configuring the PPP link between the routers R1 and R2. However, the link cannot be established. Based on the partial output of the show running-config command, what is the cause of the problem?

```

R1(config)# show running-config
<output omitted>

username r2 password 0 Cisco
!
interface Serial0/0/0
 ip address 209.165.200.225 255.255.255.252
 encapsulation ppp
 ppp authentication chap

R2(config)# show running-config
<output omitted>

username r1 password 0 Cisco
!
interface Serial0/0/0
 ip address 209.165.200.226 255.255.255.252
 encapsulation ppp
 ppp authentication chap

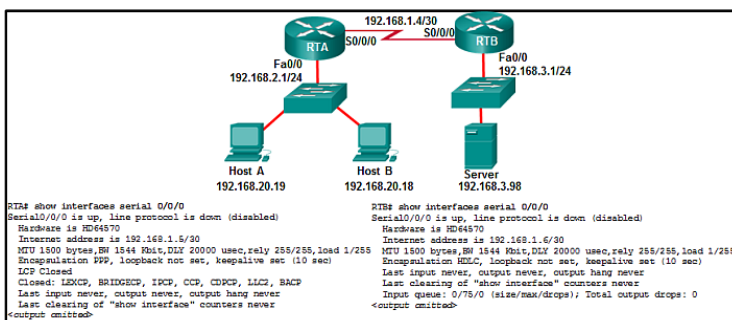
```

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- ☐ The usernames do not match each other.
- ☒ The usernames do not match the host names.
- ☐ The passwords for CHAP should be in lowercase.
- ☐ The username r1 should be configured on the router R1 and the username r2 should be configured on the router R2.

16. Question

Refer to the exhibit. A network administrator has configured routers RTA and RTB, but cannot ping from serial interface to serial interface. Which layer of the OSI model is the most likely cause of the problem?



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- ☐ application
- ☐ transport
- ☐ network
- ☒ data link

☐ physical

17. Question

What advantage does DSL have compared to cable technology?

- ☐ DSL upload and download speeds are always the same.
- ☐ DSL is faster.
- ☐ DSL has no distance limitations.
- ☒ DSL is not a shared medium.

18. Question

Which broadband technology would be best for a user that needs remote access when traveling in mountains and at sea?

- ☐ Wi-Fi Mesh
- ☐ mobile broadband
- ☐ WiMax
- ☒ satellite

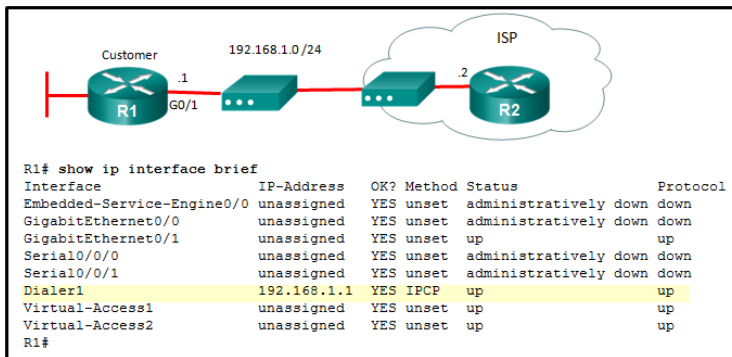
19. Question

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

- ☐ dialup analog modem
- ☐ dialup ISDN modem
- ☒ DSL
- ☐ T1

20. Question

Refer to the exhibit. What is the network administrator verifying when issuing the show ip interface brief command on R1 in respect to the PPPoE connection to R2?



CCNA4 v6.0 Final Exam 006

- ☐ that the Dialer1 interface has been manually assigned an IP address
- ☐ that the Dialer1 interface is up and up
- ☒ that the Dialer1 interface has been assigned an IP address by the ISP router
- ☐ that the IP address on R1 G0/1 is in the same network range as the DSL modem

21. Question

Which technology creates a mapping of public IP addresses for remote tunnel spokes in a DMVPN configuration?

- ☐ ARP
- ☒ NHRP
- ☐ NAT
- ☐ IPsec

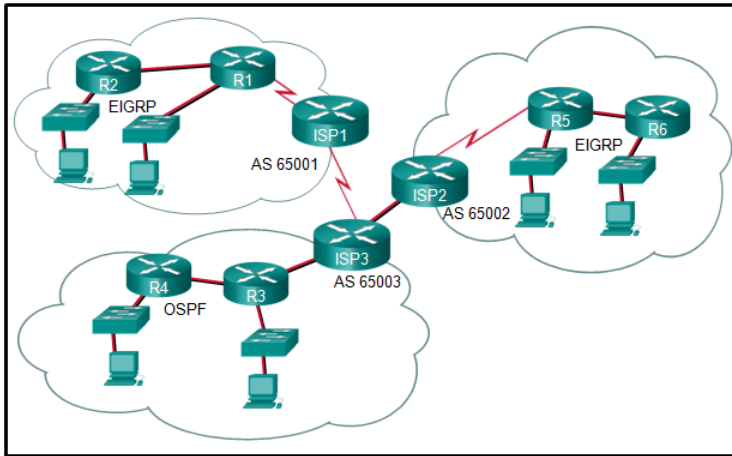
22. Question

What is the purpose of the generic routing encapsulation tunneling protocol?

- ☐ to provide packet level encryption of IP traffic between remote sites
- ☒ to manage the transportation of IP multicast and multiprotocol traffic between remote sites
- ☐ to support basic unencrypted IP tunneling using multivendor routers between remote sites
- ☐ to provide fixed flow-control mechanisms with IP tunneling between remote sites

23. Question

Refer to the exhibit. What is used to exchange routing information between routers within each AS?

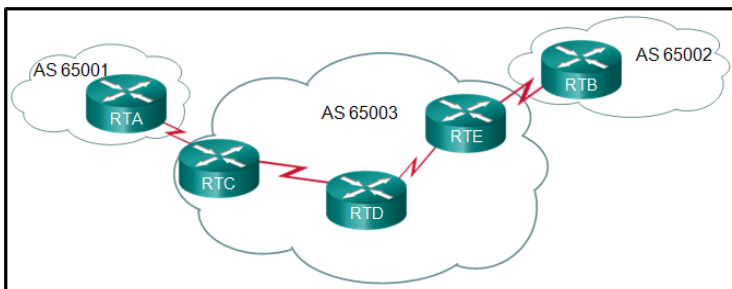


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- ☐ static routing
- ☒ IGP routing protocols
- ☐ EGP routing protocols
- ☐ default routing

24. Question

Refer to the exhibit. All routers are successfully running the BGP routing protocol. How many routers must use EBGP in order to share routing information across the autonomous systems?



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- ☐ 2
- ☐ 3
- ☒ 4
- ☐ 5

25. Question

Which IPv4 address range covers all IP addresses that match the ACL filter specified by 172.16.2.0 with wildcard mask 0.0.1.255?

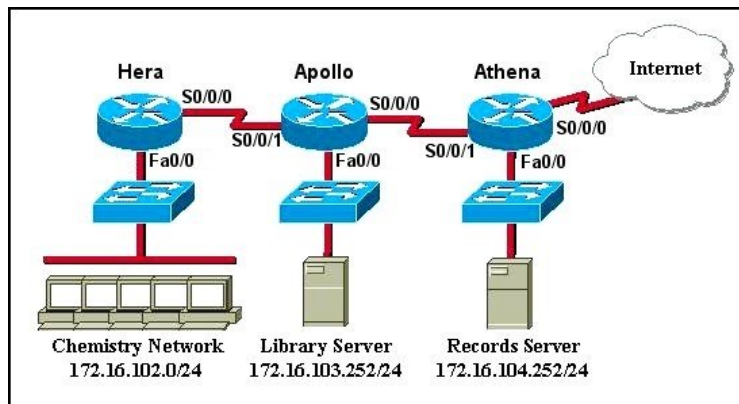
- ☐ 172.16.2.0 to 172.16.2.255
- ☐ 172.16.2.1 to 172.16.3.254
- ☒ 172.16.2.0 to 172.16.3.255
- ☐ 172.16.2.1 to 172.16.255.255

26. Question

Refer to the exhibit. A named access list called *chemistry_block* has been written to prevent users on the Chemistry Network and public Internet from access to Records Server. All other users within the school should have access to this server. The list contains the following statements:

```
deny 172.16.102.0 0.0.0.255 172.16.104.252 0.0.0.0
permit 172.16.0.0 0.0.255.255 172.16.104.252
0.0.0.0
```

Which command sequence will place this list to meet these requirements?



CCNA4 v6.0 Final Exam 002

- ☐ Hera(config)# interface fa0/0
Hera(config-if)# ip access-group chemistry_block in
- ☐ Hera(config)# interface s0/0/0
Hera(config-if)# ip access-group chemistry_block out
- ☐ Apollo(config)# interface s0/0/0
Apollo(config-if)# ip access-group chemistry_block out
- ☐ Apollo(config)# interface s0/0/1
Apollo(config-if)# ip access-group chemistry_block in

- ☐ Athena(config)# interface s0/0/1
Athena(config-if)# ip access-group chemistry_block
in
- ☒ Athena(config)# interface fa0/0
Athena(config-if)# ip access-group chemistry_block
out

27. Question

What guideline is generally followed about the placement of extended access control lists?

- ☒ They should be placed as close as possible to the source of the traffic to be denied.
- ☐ They should be placed as close as possible to the destination of the traffic to be denied.
- ☐ They should be placed on the fastest interface available.
- ☐ They should be placed on the destination WAN link.

28. Question

In the creation of an IPv6 ACL, what is the purpose of the implicit final command entries, permit icmp any any nd-na and permit icmp any any nd-ns?

- ☒ to allow IPv6 to MAC address resolution
- ☐ to allow forwarding of IPv6 multicast packets
- ☐ to allow automatic address configuration
- ☐ to allow forwarding of ICMPv6 packets

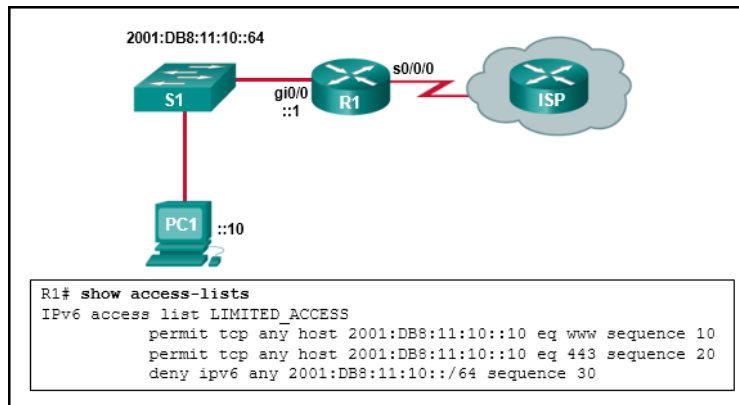
29. Question

A network administrator is testing IPv6 connectivity to a web server. The network administrator does not want any other host to connect to the web server except for the one test computer. Which type of IPv6 ACL could be used for this situation?

- ☐ only a standard ACL
- ☐ a standard or extended ACL
- ☐ only an extended ACL
- ☐ an extended, named, or numbered ACL
- ☒ only a named ACL

30. Question

Refer to the exhibit. The IPv6 access list **LIMITED_ACCESS** is applied on the **S0/0/0** interface of **R1** in the inbound direction. Which IPv6 packets from the ISP will be dropped by the ACL on R1?



CCNA4 v6.0 Final Exam 013

- ☐ HTTPS packets to PC1
- ☒ ICMPv6 packets that are destined to PC1
- ☐ packets that are destined to PC1 on port 80
- ☐ neighbor advertisements that are received from the ISP router

31. Question

What is a secure configuration option for remote access to a network device?

- ☒ Configure SSH.
- ☐ Configure Telnet.
- ☐ Configure 802.1x.
- ☐ Configure an ACL and apply it to the VTY lines.

32. Question

What protocol should be disabled to help mitigate VLAN attacks?

- ☒ DTP
- ☐ STP
- ☐ CDP
- ☐ ARP

33. Question

Which term describes the role of a Cisco switch in the 802.1X port-based access control?

- ☐ agent
- ☐ supplicant
- ☒ authenticator
- ☐ authentication server

34. Question

What two protocols are supported on Cisco devices for AAA communications? (Choose two.)

- ☐ VTP
- ☐ LLDP
- ☐ HSRP
- ☒ RADIUS
- ☒ TACACS+

35. Question

In configuring SNMPv3, what is the purpose of creating an ACL?

- ☐ to define the source traffic that is allowed to create a VPN tunnel
- ☐ to define the type of traffic that is allowed on the management network
- ☒ to specify the source addresses allowed to access the SNMP agent
- ☐ to define the protocols allowed to be used for authentication and encryption

36. Question

Refer to the exhibit. What feature does an SNMP manager need in order to be able to set a parameter on switch ACSw1?

```
ACSw1(config)# snmp-server community K33p0ut RO 43
ACSw1(config)# snmp-server community St0pTh@t RW 43
ACSw1(config)# snmp-server trap 172.16.128.50
ACSw1(config)# access-list 43 permit 192.168.0.0 0.0.0.255
```

CCNA4 v6.0 Final Exam 003

- ☐ a manager who is using an SNMP string of K44p0ut

- ☐ a manager who is using an Inform Request MIB
- ☒ a manager who is using host 192.168.0.5
- ☐ a manager who is using authPriv

37. Question

Which Cisco feature sends copies of frames entering one port to a different port on the same switch in order to perform traffic analysis?

- ☐ CSA
- ☐ HIPS
- ☒ SPAN
- ☐ VLAN

38. Question

What are two characteristics of video traffic? (Choose two.)

- ☐ Video traffic is more resilient to loss than voice traffic is.
- ☒ Video traffic is unpredictable and inconsistent.
- ☒ Video traffic latency should not exceed 400 ms.
- ☐ Video traffic requires a minimum of 30 kbs of bandwidth.
- ☐ Video traffic consumes less network resources than voice traffic consumes.

39. Question

Which QoS mechanism allows delay-sensitive data, such as voice, to be sent first before packets in other queues are sent?

- ☐ CBWFQ
- ☐ FIFO
- ☒ LLQ
- ☐ FCFS

40. Question

Refer to the exhibit. As traffic is forwarded out an egress interface with QoS treatment, which congestion avoidance technique is used?

- ☒ traffic shaping

- ☐ weighted random early detection
- ☐ classification and marking
- ☐ traffic policing

41. Question

Which type of QoS marking is applied to Ethernet frames?

- ☐ CoS
- ☐ ToS
- ☐ DSCP
- ☐ IP precedence

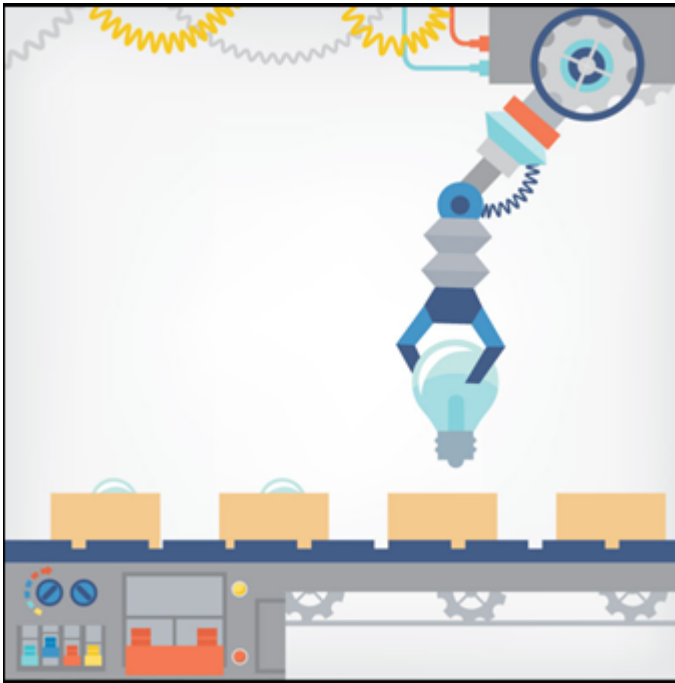
42. Question

What is the function of a QoS trust boundary?

- ☐ A trust boundary identifies the location where traffic cannot be remarked.
- ☐ A trust boundary identifies which devices trust the marking on packets that enter a network.
- ☐ A trust boundary only allows traffic to enter if it has previously been marked.
- ☐ A trust boundary only allows traffic from trusted endpoints to enter the network.

43. Question

A vibration sensor on an automated production line detects an unusual condition. The sensor communicates with a controller that automatically shuts down the line and activates an alarm. What type of communication does this scenario represent?



CCNA4 v6.0 Final Exam 010

- ☐ machine-to-people
- ☒ machine-to-machine
- ☐ people-to-people
- ☐ people-to-machine

44. Question

Which pillar of the Cisco IoT System allows data to be analyzed and managed at the location where it is generated?

- ☐ data analytics
- ☒ fog computing
- ☐ network connectivity
- ☐ application enhancement platform

45. Question

Which Cloud computing service would be best for a new organization that cannot afford physical servers and networking equipment and must purchase network services on-demand?

- ☐ PaaS
- ☐ SaaS
- ☐ ITaaS
- ☒ IaaS

46. Question

A data center has recently updated a physical server to host multiple operating systems on a single CPU. The data center can now provide each customer with a separate web server without having to allocate an actual discrete server for each customer. What is the networking trend that is being implemented by the data center in this situation?

- ☐ BYOD
- ☒ virtualization
- ☐ maintaining communication integrity
- ☐ online collaboration

47. Question

What is used to pre-populate the adjacency table on Cisco devices that use CEF to process packets?

- ☒ the ARP table
- ☐ the routing table
- ☐ the FIB
- ☐ the DSP

48. Question

Which component of the ACI architecture translates application policies into network programming?

- ☐ the Nexus 9000 switch
- ☐ the Application Network Profile endpoints
- ☒ the Application Policy Infrastructure Controller
- ☐ the hypervisor

49. Question

Which two pieces of information should be included in a logical topology diagram of a network? (Choose two.)

- ☐ device type
- ☐ OS/IOS version
- ☒ connection type

- ☒ interface identifier
- ☐ cable specification
- ☐ cable type and identifier

50. Question

Which network performance statistics should be measured in order to verify SLA compliance?

- ☐ NAT translation statistics
- ☐ device CPU and memory utilization
- ☒ latency, jitter, and packet loss
- ☐ the number of error messages that are logged on the syslog server

51. Question

Which feature sends simulated data across the network and measures performance between multiple network locations?

- ☐ LLDP
- ☒ IP SLA
- ☐ syslog
- ☐ SPAN

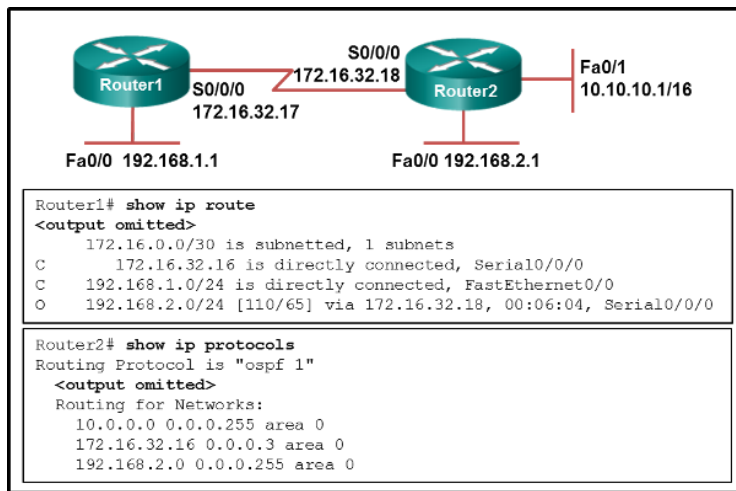
52. Question

Which troubleshooting tool would a network administrator use to check the Layer 2 header of frames that are leaving a particular host?

- ☒ protocol analyzer
- ☐ baselining tool
- ☐ knowledge base
- ☐ CiscoView

53. Question

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?



CCNA4 v6.0 Final Exam 011

- ☐ The serial interface on Router2 is down.
- ☐ The OSPF process is not running on Router2.
- ☐ The OSPF process is configured incorrectly on Router1.
- ☐ There is an incorrect wildcard mask statement for network 10.10.0.0/16 on Router2.

54. Question

Refer to the exhibit. A user turns on a PC after it is serviced and calls the help desk to report that the PC seems unable to reach the Internet. The technician asks the user to issue the `arp -a` and `ipconfig` commands. Based on the output, what are two possible causes of the problem? (Choose two.)

```

C:\Windows\system32> arp -a

Interface: 192.168.1.179 --- 0x4
 Internet Address      Physical Address      Type
192.168.1.255          ff-ff-ff-ff-ff-ff    static
224.0.0.22             01-00-5e-00-00-16    static
224.0.0.252            01-00-5e-00-00-fc    static
255.255.255.255        ff-ff-ff-ff-ff-ff    static

C:\Windows\system32> ipconfig

Ethernet adapter Ethernet:* 4:

   IPv4 Address. . . . . : 192.168.1.179
   Subnet Mask . . . . . : 255.255.255.0
   Default Gateway . . . . . : 192.168.1.1
  
```

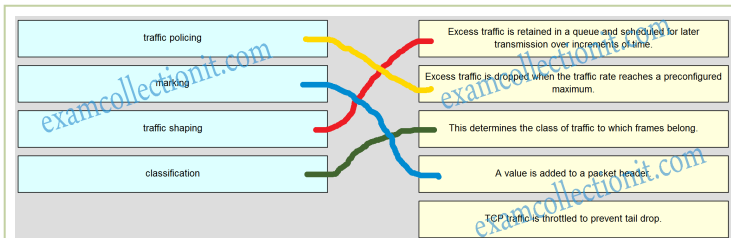
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- ☐ The IP configuration is incorrect.
- ☐ The network cable is unplugged.
- ☐ The DNS server address is not configured.

- ☐ The subnet mask is configured incorrectly.
- ☒ The default gateway device cannot be contacted.

55. Question

Match OoS techniques with the description. (Not all options are used.)



CCNA4 v6.0 Final Exam Form A 01

CCNA4 v6.0 Final Exam **Form B** Full 100% 2017

1. Question

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

- ☒ when its employees become distributed across many branch locations
- ☐ when the network will span multiple buildings
- ☐ when the number of employees exceeds the capacity of the LAN
- ☐ when the enterprise decides to secure its corporate LAN

2. Question

What are two types of WAN providers? (Choose two.)

- ☐ DNS servers
- ☒ satellite service
- ☐ web hosting service
- ☒ telephone company
- ☐ Internet search engine service

3. Question

Which two types of devices are specific to WAN environments and are not found on a LAN?

(Choose two.)

- ☐ access layer switch
- ☒ **broadband modem**
- ☐ core switch
- ☒ **CSU/DSU**
- ☐ distribution layer router

4. Question

What is a feature of dense wavelength-division multiplexing (DWDM) technology?

- ☐ It replaces SONET and SDH technologies.
- ☒ **It enables bidirectional communications over one strand of fiber.**
- ☐ It provides Layer 3 support for long distance data communications.
- ☐ It provides a 10 Gb/s multiplexed signal over analog copper telephone lines.

5. Question

What is a disadvantage of ATM compared to Frame Relay?

- ☒ **less efficient**
- ☐ lacks SVC support
- ☐ does not scale well to provide high speed WAN connections
- ☐ requires multiple interfaces on the edge router to support multiple VCs

6. Question

Which WAN solution uses labels to identify the path in sending packets through a provider network?

- ☐ cable
- ☐ DSL
- ☐ Frame Relay
- ☒ **MPLS**
- ☐ VSAT

7. Question

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

- ☐ private infrastructure
- ☒ public infrastructure
- ☐ dedicated
- ☐ circuit-switched
- ☒ cellular

8. Question

What device is needed at a central office to aggregate many digital subscriber lines from customers?

- ☐ CMTS
- ☒ DSLAM
- ☐ CSU/DSU
- ☐ access server

9. Question

A corporation is searching for an easy and low cost solution to provide teleworkers with a secure connection to headquarters. Which solution should be selected?

- ☐ dial-up connection
- ☐ leased line connection
- ☐ site-to-site VPN over the Internet
- ☒ remote access VPN over the Internet

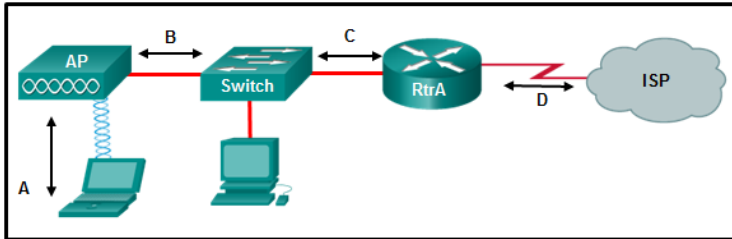
10. Question

What is the maximum number of DS0 channels in a 1.544 Mbps T1 line?

- ☐ 2
- ☐ 12
- ☒ 24
- ☐ 28

11. Question

Refer to the exhibit. What type of Layer 2 encapsulation will be used for RtrA connection D if it is left to the default and the router is a Cisco router?



CCNA4 v6.0 Final Exam Form B 001

- ☐ Ethernet
- ☐ Frame Relay
- ☒ HDLC
- ☐ PPP

12. Question

Which two functions are provided by the NCP during a PPP connection? (Choose two.)

- ☐ identifying fault conditions for the PPP link
- ☐ providing multilink capabilities over the PPP link
- ☒ bringing the network layer protocol or protocols up and down
- ☐ enhancing security by providing callback over PPP
- ☒ negotiating options for the IP protocol
- ☐ managing authentication of the peer routers of the PPP link

13. Question

What PPP information will be displayed if a network engineer issues the show ppp multilink command on Cisco router?

- ☐ the link LCP and NCP status
- ☐ the queuing type on the link
- ☐ the IP addresses of the link interfaces
- ☒ the serial interfaces participating in the multilink

14. Question

Refer to the exhibit. Which statement describes the status of the PPP connection?

```
Serial1 is up, line protocol is up
Hardware is HD64570
Internet address is 200.200.200.1/24
MTU 1500 bytes, BW 1544 Kbit, DLY 20000 usec,
  reliability 255/255, txload 1/255, rxload 1/255
Encapsulation PPP, loopback not set
Keepalive set (10 sec)
LCP Open
Open: IPCP, CDPCP
Last input 00:00:04, output 00:00:04, output hang never
Last clearing of "show interface" counters 00:08:59
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: weighted fair
Output queue: 0/1000/64/0 (size/max total/threshold/drops)
Conversations 0/1/256 (active/max active/max total)
Reserved Conversations 0/0 (allocated/max allocated)
Available Bandwidth 1158 kilobits/sec
```

CCNA4 v6.0 Final Exam Form B 004

- ☐ Only the link-establishment phase completed successfully.
- ☐ Only the network-layer phase completed successfully.
- ☐ Neither the link-establishment phase nor the network-layer phase completed successfully.
- ☒ Both the link-establishment and network-layer phase completed successfully.

15. Question

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 PPP link will be closed down if the link quality drops below 70 percent.
- ☐ The NCP will send a message to the sending device if the link usage reaches 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.

16. Question

How does virtualization help with disaster recovery within a data center?

- ☐ Power is always provided.
- ☐ Less energy is consumed.
- ☐ Server provisioning is faster.
- ☒ Hardware does not have to be identical.

17. Question

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

- ☒ cable
- ☐ DSL
- ☐ WiMax
- ☐ ADSL

18. Question

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

- ☒ PPPoE
- ☐ CHAP
- ☐ ADSL
- ☐ LTE

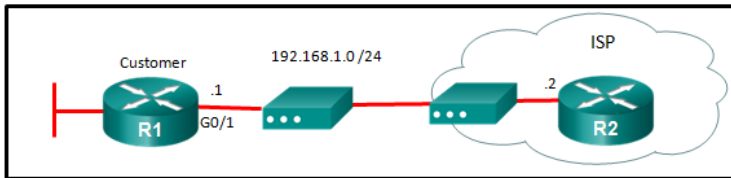
19. Question

In software defined network architecture, what function is removed from network devices and performed by an SDN controller?

- ☒ control plane
- ☐ data plane
- ☐ security
- ☐ application policies

20. Question

What would a network administrator expect the routing table of stub router R1 to look like if connectivity to the ISP was established via a PPPoE configuration?



CCNA4 v6.0 Final Exam Form B 005

- ☐ 192.168.1.0/32 is subnetted, 2 subnets
- C 192.168.1.1 is directly connected, Dialer1
- C 192.168.1.2 is directly connected, Dialer2
- ☐ S* 0.0.0.0/0 is directly connected, Dialer1
- ☐ 192.168.1.0/32 is subnetted, 2 subnets
- C 192.168.1.1 is directly connected, Dialer
- ☒ S* 0.0.0.0/0 is directly connected, Dialer1
- 192.168.1.0/32 is subnetted, 2 subnets
- C 192.168.1.1 is directly connected, Dialer1
- C 192.168.1.2 is directly connected, Dialer1

21. Question

What is a benefit of implementing a Dynamic Multipoint VPN network design?

- ☐ A DMVPN will use an encrypted session and does not require IPsec.
- ☐ A DMVPN uses a Layer 3 protocol, NHRP, to dynamically establish tunnels.
- ☒ A DMVPN will support remote peers by providing a mapping database of public IP addresses to each one.
- ☐ A DMVPN uses mGRE to create multiple GRE interfaces that each support a single VPN tunnel.

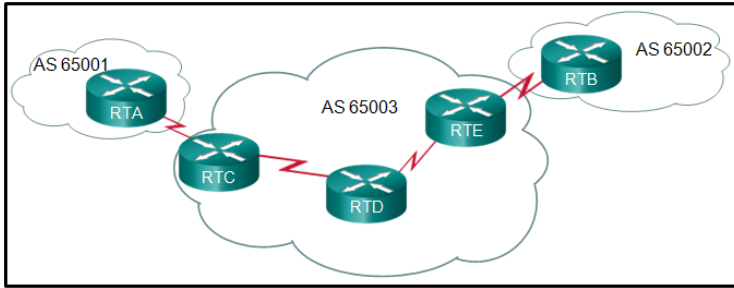
22. Question

Which remote access implementation scenario will support the use of generic routing encapsulation tunneling?

- ☐ a mobile user who connects to a router at a central site
- ☐ a branch office that connects securely to a central site
- ☐ a mobile user who connects to a SOHO site
- ☒ a central site that connects to a SOHO site without encryption

23. Question

Refer to the exhibit. All routers are successfully running the BGP routing protocol. How many routers must use EBGP in order to share routing information across the autonomous systems?



CCNA4 v6.0 Final Exam Form B 006

- ☐ 2
- ☐ 3
- ☒ 4
- ☐ 5

24. Question

Which statement describes a characteristic of standard IPv4 ACLs?

- ☐ They are configured in the interface configuration mode.
- ☒ They filter traffic based on source IP addresses only.
- ☐ They can be created with a number but not with a name.
- ☐ They can be configured to filter traffic based on both source IP addresses and source ports.

25. Question

Which three values or sets of values are included when creating an extended access control list entry? (Choose three.)

- ☐ access list number between 1 and 99
- ☒ access list number between 100 and 199
- ☐ default gateway address and wildcard mask
- ☒ destination address and wildcard mask
- ☒ source address and wildcard mask

- ☐ source subnet mask and wildcard mask
- ☐ destination subnet mask and wildcard mask

26. Question

Refer to the exhibit. A router has an existing ACL that permits all traffic from the 172.16.0.0 network. The administrator attempts to add a new ACE to the ACL that denies packets from host 172.16.0.1 and receives the error message that is shown in the exhibit. What action can the administrator take to block packets from host 172.16.0.1 while still permitting all other traffic from the 172.16.0.0 network?

```
Router(config)# access-list 1 deny 172.16.0.1
% Access rule can't be configured at higher sequence num
as it is part of the existing rule at sequence num 10
Router(config)# exit
Router# show access-lists 1
Standard IP access list 1
  10 permit 172.16.0.0, wildcard bits 0.0.255.255
```

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- ☐ Manually add the new deny ACE with a sequence number of 5.
- ☐ Manually add the new deny ACE with a sequence number of 15.
- ☐ Create a second access list denying the host and apply it to the same interface.
- ☐ Add a deny any any ACE to access-list 1.

27. Question

Which three implicit access control entries are automatically added to the end of an IPv6 ACL? (Choose three.)

- ☐ deny ip any any
- ☐ deny ipv6 any any
- ☐ permit ipv6 any any
- ☐ deny icmp any any
- ☐ permit icmp any any nd-ns
- ☐ permit icmp any any nd-na

28. Question

The computers used by the network administrators for a school are on the 10.7.0.0/27

network. Which two commands are needed at a minimum to apply an ACL that will ensure that only devices that are used by the network administrators will be allowed Telnet access to the routers? (Choose two.)

- ☐ access-class 5 in
- ☐ access-list 5 deny any
- ☐ access-list standard VTY
permit 10.7.0.0 0.0.0.127
- ☐ access-list 5 permit 10.7.0.0 0.0.0.31
- ☐ ip access-group 5 out
- ☐ ip access-group 5 in

29. Question

A network administrator is adding ACLs to a new IPv6 multirouter environment. Which IPv6 ACE is automatically added implicitly at the end of an ACL so that two adjacent routers can discover each other?

- ☐ permit ip any any
- ☐ permit ip any host ip_address
- ☐ permit icmp any any nd-na
- ☐ deny ip any any

30. Question

What would be the primary reason an attacker would launch a MAC address overflow attack?

- ☐ so that the switch stops forwarding traffic
- ☐ so that legitimate hosts cannot obtain a MAC address
- ☐ so that the attacker can see frames that are destined for other hosts
- ☐ so that the attacker can execute arbitrary code on the switch

31. Question

What are three of the six core components in the Cisco IoT system? (Choose three.)

- ☐ fog computing

- ☐ wearable technologies
- ☒ data analytics
- ☐ robot guides
- ☒ cyber and physical security
- ☐ smart bandages

32. Question

What security countermeasure is effective for preventing CAM table overflow attacks?

- ☒ port security
- ☐ DHCP snooping
- ☐ IP source guard
- ☐ Dynamic ARP Inspection

33. Question

What two protocols are supported on Cisco devices for AAA communications? (Choose two.)

- ☐ VTP
- ☐ LLDP
- ☐ HSRP
- ☒ RADIUS
- ☒ TACACS+

34. Question

Which SNMP feature provides a solution to the main disadvantage of SNMP polling?

- ☐ SNMP set messages
- ☒ SNMP trap messages
- ☐ SNMP get messages
- ☐ SNMP community strings

35. Question

When SNMPv1 or SNMPv2 is being used, which feature provides secure access to MIB objects?

- ☐ packet encryption
- ☐ message integrity
- ☒ community strings

☐ source validation

36. Question

What two features are added in SNMPv3 to address the weaknesses of previous versions of SNMP? (Choose two.)

- ☐ bulk MIB objects retrieval
- ☐ encryption
- ☐ authorization with community string priority
- ☐ authentication
- ☐ ACL management filtering

37. Question

Refer to the exhibit. What feature does an SNMP manager need in order to be able to set a parameter on switch ACSw1?

```
ACSw1(config)# snmp-server community K33p0ut RO 43
ACSw1(config)# snmp-server community St0pTh@t RW 43
ACSw1(config)# snmp-server trap 172.16.128.50
ACSw1(config)# access-list 43 permit 192.168.0.0 0.0.0.255
```

CCNA4 v6.0 Final Exam Form B 002

- ☐ a manager who is using an SNMP string of K44p0ut
- ☐ a manager who is using an Inform Request MIB
- ☐ a manager who is using host 192.168.0.5
- ☐ a manager who is using authPriv

38. Question

Which queuing mechanism supports user-defined traffic classes?

- ☐ FIFO
- ☐ CBWFQ
- ☐ WFQ
- ☐ FCFS

39. Question

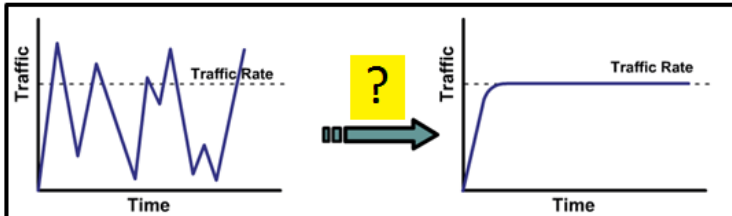
Which QoS mechanism allows delay-sensitive data, such as voice, to be sent first before packets in other queues are sent?

- ☐ CBWFQ

- ☐ FIFO
- ☒ LLQ
- ☐ FCFS

40. Question

Refer to the exhibit. As traffic is forwarded out an egress interface with QoS treatment, which congestion avoidance technique is used?



CCNA4 v6.0 Final Exam Form B 003

- ☒ traffic shaping
- ☐ weighted random early detection
- ☐ classification and marking
- ☐ traffic policing

41. Question

Which field is used to mark Layer 2 Ethernet frames for QoS treatment?

- ☐ Type of Service field
- ☐ Traffic Class field
- ☒ Priority field
- ☐ Version field

42. Question

What is the function of a QoS trust boundary?

- ☐ A trust boundary identifies the location where traffic cannot be remarked.
- ☒ A trust boundary identifies which devices trust the marking on packets that enter a network.
- ☐ A trust boundary only allows traffic to enter if it has previously been marked.
- ☐ A trust boundary only allows traffic from trusted endpoints to enter the network.

43. Question

Which pillar of the Cisco IoT System allows data to be analyzed and managed at the location where it is generated?

- ☐ data analytics
- ☒ fog computing
- ☐ network connectivity
- ☐ application enhancement platform

44. Question

What is an example of cloud computing?

- ☐ a continuous interaction between people, processes, data, and things
- ☒ a service that offers on-demand access to shared resources
- ☐ a network infrastructure that spans a large geographic area
- ☐ an architectural style of the World Wide Web

45. Question

Which type of resources are required for a Type 1 hypervisor?

- ☐ a host operating system
- ☐ a server running VMware Fusion
- ☒ a management console
- ☐ a dedicated VLAN

46. Question

A network technician made a configuration change on the core router in order to solve a problem. However, the problem is not solved. Which step should the technician take next?

- ☐ Gather symptoms.
- ☐ Isolate the problem.
- ☒ Restore the previous configuration.
- ☐ Implement the next possible corrective action.

47. Question

A user reports that when the corporate web page URL is entered on a web browser, an error

message indicates that the page cannot be displayed. The help-desk technician asks the user to enter the IP address of the web server to see if the page can be displayed. Which troubleshooting method is being used by the technician?

- ☐ top-down
- ☐ bottom-up
- ☐ substitution
- ☒ divide-and-conquer

48. Question

What is a primary function of the Cisco IOS IP Service Level Agreements feature?

- ☐ to detect potential network attacks
- ☐ to provide network connectivity for customers
- ☐ to adjust network device configurations to avoid congestion
- ☒ to measure network performance and discover a network failure as early as possible

49. Question

Which IOS log message level indicates the highest severity level?

- ☒ level 0
- ☐ level 1
- ☐ level 4
- ☐ level 7

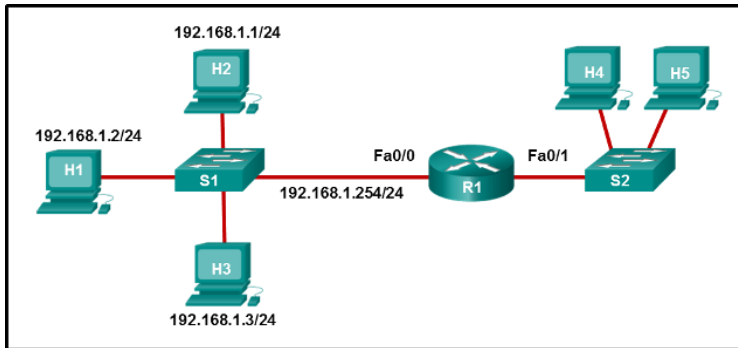
50. Question

Which symptom is an example of network issues at the network layer?

- ☐ A misconfigured firewall blocks traffic to a file server.
- ☐ There are too many invalid frames transmitted in the network.
- ☒ Neighbor adjacency is formed with some routers, but not all routers.
- ☐ A web server cannot be reached by its domain name, but can be reached via its IP address.

51. Question

Refer to the exhibit. H1 can only ping H2, H3, and the Fa0/0 interface of router R1. H2 and H3 can ping H4 and H5. Why might H1 not be able to successfully ping H4 and H5?



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- ☐ Router R1 does not have a route to the destination network.
- ☐ Switch S1 does not have an IP address configured.
- ☐ The link between router R1 and switch S2 has failed.
- ☐ Host H1 does not have a default gateway configured.
- ☐ Hosts H4 and H5 are members of a different VLAN than host H1.

52. Question

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

```

C:\Windows\system32> tracert 192.168.100.1
Tracing route to 192.168.100.1 over a maximum of 30 hops
 0  1 ms  <1 ms  <1 ms  10.10.10.10
 1  2 ms  2 ms  1 ms  192.168.1.22
 2  2 ms  2 ms  1 ms  192.168.1.62
 3  2 ms  2 ms  1 ms  172.16.1.1
 4  2 ms  2 ms  1 ms  192.168.100.1
Trace complete.
  
```

CCNA4 v6.0 Final Exam Form B 007

- ☐ There is connectivity between this device and the device at 192.168.100.1.
- ☐ 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.
- ☐ The average transmission time between the two hosts is 2 milliseconds.
- ☐ This host does not have a default gateway configured.

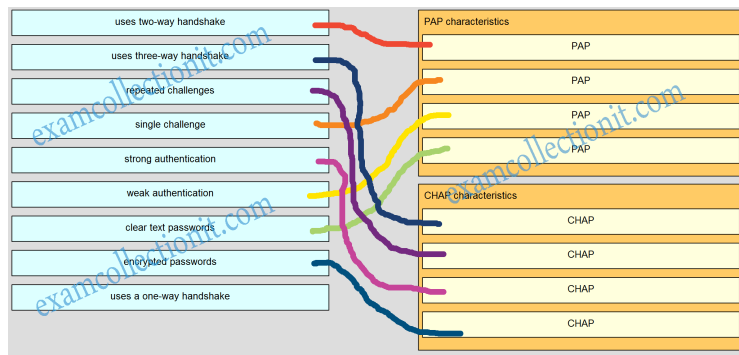
53. Question

Fill in the blanks. Use dotted decimal format.

The wildcard mask that is associated with 128.165.216.0/23 is 0.0.1.255 .

54. Question

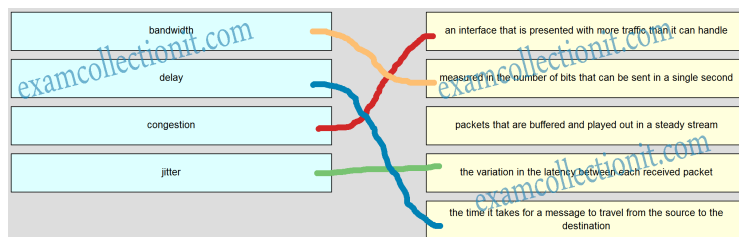
Match the characteristic to the appropriate authentication protocol. (Not all options are used.)



CCNA4 v6.0 Final Exam Form B 01

55. Question

Match the term to the description. (Not all options are used.)



CCNA4 v6.0 Final Exam Form B 02

CCNA4 v6.0 Final Exam **Form C** Full 100% 2017

1. Question

What is a primary difference between a company LAN and the WAN services that it uses?

- ☐ The company must subscribe to an external WAN service provider.
- ☐ The company has direct control over its WAN links but not over its LAN.
- ☐ Each LAN has a specified demarcation point to clearly separate access layer and distribution layer equipment.
- ☐ The LAN may use a number of different network access layer standards whereas the WAN will use only one standard.

2. Question

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

- ☐ when its employees become distributed across many branch locations
- ☐ when the network will span multiple buildings
- ☐ when the number of employees exceeds the capacity of the LAN
- ☐ when the enterprise decides to secure its corporate LAN

3. Question

To which two layers of the OSI model do WAN technologies provide services? (Choose two.)

- ☐ network layer
- ☐ session layer
- ☐ physical layer
- ☐ transport layer
- ☐ data link layer
- ☐ presentation layer

4. Question

Which two technologies are private WAN technologies? (Choose two.)

- ☐ cable
- ☐ Frame Relay
- ☐ DSL

- ☐ ATM
- ☐ cellular

5. Question

Which WAN technology can switch any type of payload based on labels?

- ☐ PSTN
- ☐ DSL
- ☐ MPLS
- ☐ T1/E1

6. Question

What technology can be used to create a private WAN via satellite communications?

- ☐ VPN
- ☐ 3G/4G cellular
- ☐ dialup
- ☐ VSAT
- ☐ WiMAX

7. Question

Which public WAN access technology utilizes copper telephone lines to provide access to subscribers that are multiplexed into a single T3 link connection?

- ☐ ISDN
- ☐ DSL
- ☐ dialup
- ☐ cable

8. Question

A corporation is searching for an easy and low cost solution to provide teleworkers with a secure connection to headquarters. Which solution should be selected?

- ☐ dial-up connection
- ☐ leased line connection
- ☐ site-to-site VPN over the Internet

☐ remote access VPN over the Internet

9. Question

How many DS0 channels are bounded to produce a 1.544 Mb/s DS1 line?

- ☐ 2
- ☐ 12
- ☒ 24
- ☐ 28

10. Question

Refer to the exhibit. Communication between two peers has failed. Based on the output that is shown, what is the most likely cause?

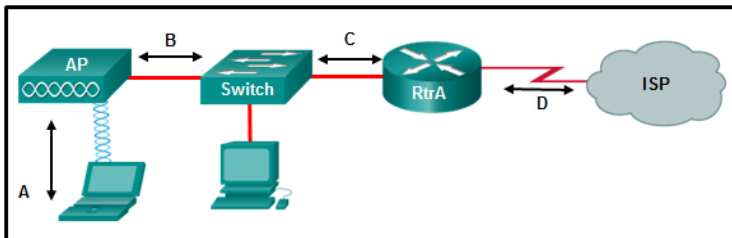
```
Router# show interfaces serial0/0/0
Serial0/0/0 is up, line protocol is down (disabled)
Hardware is HD64570
Internet address is 10.0.0.2/30
MTU 1500 bytes, BW 1544 Kbit, DLY 20000 usec,
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation PPP, loopback not set, keepalive set (10 sec)
LCP Closed
Closed: LEXCP, BRIDGECP, IPCP, CCP, CDPCP, LLC2, BACP
Last input never, output never, output hang never
Last clearing of "show interface" counters never
<output omitted>
```

CCNA4 v6.0 Final Exam Form C 003

- ☐ interface reset
- ☐ unplugged cable
- ☐ improper cable type
- ☒ PPP issue

11. Question

Refer to the exhibit. Which type of Layer 2 encapsulation used for connection D requires Cisco routers?



CCNA4 v6.0 Final Exam Form C 002

- ☐ Ethernet
- ☐ PPPoE

☐ HDLC☐ PPP

12. Question

**Which three statements are true about PPP?
(Choose three.)**

- ☐ PPP can use synchronous and asynchronous circuits.
- ☐ PPP can only be used between two Cisco devices.
- ☐ PPP carries packets from several network layer protocols in LCPs.
- ☐ PPP uses LCPs to establish, configure, and test the data-link connection.
- ☐ PPP uses LCPs to agree on format options such as authentication, compression, and error detection.

13. Question

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 PPP link will be closed down if the link quality drops below 70 percent.
- ☐ The NCP will send a message to the sending device if the link usage reaches 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.

14. Question

A network administrator is evaluating authentication protocols for a PPP link. Which three factors might lead to the selection of CHAP over PAP as the authentication protocol? (Choose three.)

- ☐ establishes identities with a two-way handshake

- ☐ uses a three-way authentication periodically during the session to reconfirm identities
- ☐ control by the remote host of the frequency and timing of login events
- ☐ transmits login information in encrypted format
- ☐ uses an unpredictable variable challenge value to prevent playback attacks
- ☐ makes authorized network administrator intervention a requirement to establish each session

15. Question

Which cellular or mobile wireless standard is considered a fourth generation technology?

- ☒ LTE
- ☐ GSM
- ☐ CDMA
- ☐ UMTS

16. Question

A company is looking for the least expensive broadband solution that provides at least 10 Mb/s download speed. The company is located 5 miles from the nearest provider. Which broadband solution would be appropriate?

- ☐ satellite
- ☐ DSL
- ☐ WiMax
- ☒ cable

17. Question

Which technology can ISPs use to periodically challenge broadband customers over DSL networks with PPPoE?

- ☐ PAP
- ☒ CHAP
- ☐ HDLC
- ☐ Frame Relay

18. Question

What are the three core components of the Cisco ACI architecture? (Choose three.)

- ☐ Application Network Profile
- ☐ Application Policy Infrastructure Controller
- ☐ Cisco Nexus Switches
- ☐ Microsoft hypervisor
- ☐ Cisco Information Server
- ☐ Virtual Security Gateway

19. Question

Which statement describes a feature of site-to-site VPNs?

- ☐ The VPN connection is not statically defined.
- ☐ VPN client software is installed on each host.
- ☐ Internal hosts send normal, unencapsulated packets.
- ☐ Individual hosts can enable and disable the VPN connection.

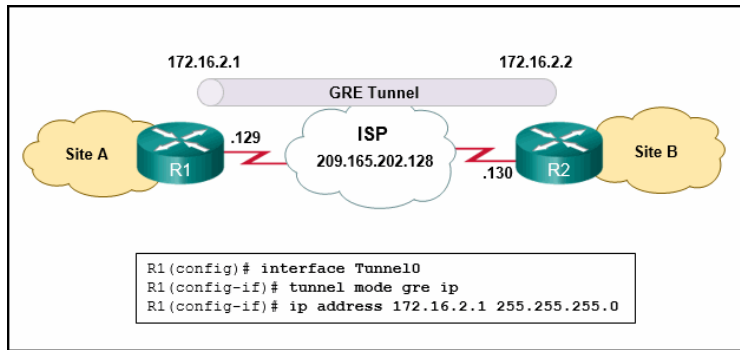
20. Question

What are three features of a GRE tunnel? (Choose three.)

- ☐ creates nonsecure tunnels between remote sites
- ☐ transports multiple Layer 3 protocols
- ☐ creates additional packet overhead
- ☐ uses RSA signatures to authenticate peers
- ☐ provides encryption to keep VPN traffic confidential
- ☐ supports hosts as GRE tunnel endpoints by installing Cisco VPN client software

21. Question

Refer to the exhibit. What two commands are needed to complete the GRE tunnel configuration on router R1? (Choose two.)



CCNA4 v6.0 Final Exam Form C 007

- ☐ R1(config-if)# tunnel source 209.165.202.129
- ☐ R1(config-if)# tunnel source 172.16.2.1
- ☐ R1(config-if)# tunnel destination 206.165.202.130
- ☐ R1(config-if)# tunnel destination 172.16.2.2
- ☐ R1(config-if)# tunnel source 209.165.202.130
- ☐ R1(config-if)# tunnel destination 206.165.202.129

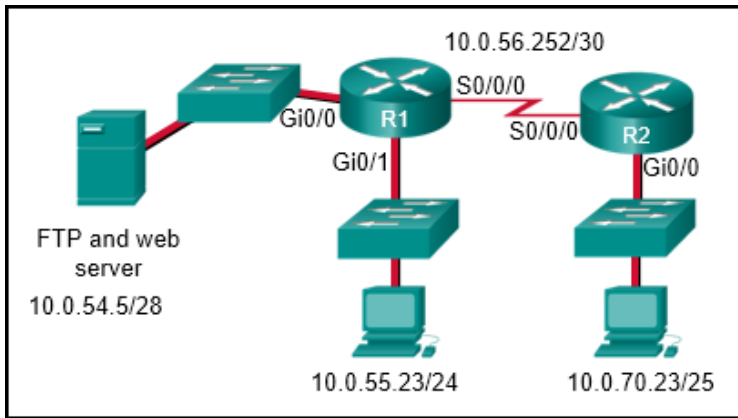
22. Question

What does BGP use to exchange routing updates with neighbors?

- ☐ TCP connections
- ☐ area numbers
- ☐ group identification numbers
- ☐ hellos

23. Question

Refer to the exhibit. The network administrator that has the IP address of 10.0.70.23/25 needs to have access to the corporate FTP server (10.0.54.5/28). The FTP server is also a web server that is accessible to all internal employees on networks within the 10.x.x.x address. No other traffic should be allowed to this server. Which extended ACL would be used to filter this traffic, and how would this ACL be applied? (Choose two.)



CCNA4 v6.0 Final Exam Form C 011

- ☐ access-list 105 permit ip host 10.0.70.23 host 10.0.54.5
 access-list 105 permit tcp any host 10.0.54.5 eq www
 access-list 105 permit ip any any
- ☐ access-list 105 permit tcp host 10.0.54.5 any eq www
 access-list 105 permit tcp host 10.0.70.23 host 10.0.54.5 eq 20
 access-list 105 permit tcp host 10.0.70.23 host 10.0.54.5 eq 21
- ☐ access-list 105 permit tcp host 10.0.70.23 host 10.0.54.5 eq 20
 access-list 105 permit tcp host 10.0.70.23 host 10.0.54.5 eq 21
 access-list 105 permit tcp 10.0.0.0 0.255.255.255 host 10.0.54.5 eq www
 access-list 105 deny ip any host 10.0.54.5
 access-list 105 permit ip any any
- ☐ R2(config)# interface gi0/0
 R2(config-if)# ip access-group 105 in
- ☐ R1(config)# interface gi0/0
 R1(config-if)# ip access-group 105 out
- ☐ R1(config)# interface s0/0/0
 R1(config-if)# ip access-group 105 out

24. Question

Refer to the exhibit. A router has an existing ACL that permits all traffic from the 172.16.0.0 network. The administrator attempts to add a new statement to the ACL that denies packets from host 172.16.0.1 and receives the error message that is shown in the exhibit. What action can the

administrator take to block packets from host 172.16.0.1 while still permitting all other traffic from the 172.16.0.0 network?

```
Router(config)# access-list 1 deny 172.16.0.1
% Access rule can't be configured at higher sequence num
as it is part of the existing rule at sequence num 10
Router(config)# exit
Router# show access-lists 1
Standard IP access list 1
 10 permit 172.16.0.0, wildcard bits 0.0.255.255
```

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- ☒ Manually add the new deny statement with a sequence number of 5.
- ☐ Manually add the new deny statement with a sequence number of 15.
- ☐ Create a second access list denying the host and apply it to the same interface.
- ☐ Add a deny any any statement to access-list 1.

25. Question

Refer to the exhibit. What can be determined from this output?

```
R1# show access-list MyACL
Extended IP access list MyACL
10 permit tcp host 10.35.80.22 host 10.23.77.101 eq telnet
20 permit tcp host 10.35.80.25 host 10.23.77.101 eq 16100 (149407 matches)
30 permit tcp host 10.35.80.25 host 10.23.77.101 eq 17600 (80592 matches)
40 permit tcp host 10.35.80.27 host 10.23.77.101 eq 10701 (26008 matches)
```

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- ☐ The ACL is missing the deny ip any any ACE.
- ☐ Because there are no matches for line 10, the ACL is not working.
- ☐ The ACL is only monitoring traffic destined for 10.23.77.101 from three specific hosts.
- ☒ The router has not had any Telnet packets from 10.35.80.22 that are destined for 10.23.77.101.

26. Question

What is the only type of ACL available for IPv6?

- ☐ named standard
- ☒ named extended
- ☐ numbered standard
- ☐ numbered extended

27. Question

Which IPv6 ACL command entry will permit traffic from any host to an SMTP server on network 2001:DB8:10:10::/64?

- ☐ permit tcp any host 2001:DB8:10:10::100 eq 25
- ☐ permit tcp host 2001:DB8:10:10::100 any eq 25
- ☐ permit tcp any host 2001:DB8:10:10::100 eq 23
- ☐ permit tcp host 2001:DB8:10:10::100 any eq 23

28. Question

Refer to the exhibit. Considering how packets are processed on a router that is configured with ACLs, what is the correct order of the statements?

- A** The packet is encapsulated by a Layer 2 protocol and forwarded out the interface to the next device.
- B** If the destination is an entry in the routing table, the packet is switched to the outgoing interface; otherwise, the packet is dropped.
- C** The router checks to see whether the destination Layer 2 address matches the receiving interface Layer 2 address.
- D** If an ACL exists on the outgoing interface, the packet is tested against the statements in the list.

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- ☐ C-B-A-D
- ☐ A-B-C-D
- ☒ C-B-D-A
- ☐ B-A-D-C
- ☐ D-A-C-B

29. Question

Which two hypervisors are suitable to support virtual machines in a data center? (Choose two.)

- ☐ Virtual PC
- ☐ VMware Fusion
- ☒ VMware ESX/ESXi
- ☐ Oracle VM VirtualBox
- ☒ Microsoft Hyper-V 2012

30. Question

How can DHCP spoofing attacks be mitigated?

- ☐ by disabling DTP negotiations on nontrunking ports
- ☒ by implementing DHCP snooping on trusted ports
- ☐ by implementing port security
- ☐ by the application of the ip verify source command to untrusted ports

31. Question

What is a secure configuration option for remote access to a network device?

- ☒ Configure SSH.
- ☐ Configure Telnet.
- ☐ Configure 802.1x.
- ☐ Configure an ACL and apply it to the VTY lines.

32. Question

What action can a network administrator take to help mitigate the threat of VLAN attacks?

- ☐ Disable VTP.
- ☐ Configure all switch ports to be members of VLAN 1.
- ☒ Disable automatic trunking negotiation.
- ☐ Enable PortFast on all switch ports.

33. Question

What two protocols are supported on Cisco devices for AAA communications? (Choose two.)

- ☐ VTP
- ☐ LLDP
- ☐ HSRP
- ☒ RADIUS
- ☒ TACACS+

34. Question

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

- ☐ GET request
- ☐ SET request
- ☐ GET response
- ☒ Trap

35. Question

Refer to the exhibit. A SNMP manager is using the community string of snmpenable and is configured with the IP address 172.16.10.1. The SNMP manager is unable to read configuration variables on the R1 SNMP agent. What could be the problem?

```
R1(config)# snmp-server community snmpenable rw ACL_SNMP
R1(config)# snmp-server location Over There
R1(config)# snmp-server contact Jane Doe
R1(config)# snmp-server host 172.16.10.1 version 2c snmpenable2
R1(config)# snmp-server enable traps
R1(config)# ip access-list standard ACL_SNMP
R1(config-std-nacl)# permit 172.16.10.10 0.0.0.0
R1(config-std-nacl)# deny any
R1(config-std-nacl)# exit
R1(config)# interface FastEthernet 0/1
R1(config-if)# ip access-group ACL_SNMP in
R1(config-if)# exit
R1(config)#
```

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- ☐ The SNMP agent is not configured for read-only access.
- ☐ The community of snmpenable2 is incorrectly configured on the SNMP agent.
- ☒ The ACL is not permitting access by the SNMP manager.
- ☐ The incorrect community string is configured on the SNMP manager.

36. Question

Refer to the exhibit. Which SNMP authentication password must be used by the member of the ADMIN group that is configured on router R1?

```
R1# config t
R1(config)# enable secret cisco98765
R1(config)# username ADMIN secret cisco54321
R1(config)# ip access-list standard PERMIT-ADMIN
R1(config-std-nacl)# permit 192.168.1.0 0.0.0.255
R1(config-std-nacl)# exit
R1(config)# snmp-server view SNMP-RO iso included
R1(config)# snmp-server group ADMIN v3 priv read SNMP-RO
access PERMIT-ADMIN
R1(config)# snmp-server user MIKE ADMIN v3 auth sha
cisco123456 priv aes 128 cisco654321
R1(config)# end
R1#
```

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- ☐ cisco54321
- ☐ cisco98765
- ☒ cisco123456
- ☐ cisco654321

37. Question

A network administrator has noticed an unusual amount of traffic being received on a switch port that is connected to a college classroom computer. Which tool would the administrator use to make the suspicious traffic available for analysis at the college data center?

- ☒ RSPAN
- ☐ TACACS+
- ☐ 802.1X
- ☐ DHCP snooping
- ☐ SNMP

38. Question

What network monitoring tool copies traffic moving through one switch port, and sends the copied traffic to another switch port for analysis?

- ☐ 802.1X
- ☐ SNMP
- ☒ SPAN
- ☐ syslog

39. Question

Voice packets are being received in a continuous stream by an IP phone, but because of network congestion the delay between each packet varies and is causing broken conversations. What term describes the cause of this condition?

- ☐ buffering
- ☐ latency
- ☐ queuing
- ☒ jitter

40. Question

What mechanism compensates for jitter in an audio stream by buffering packets and then replaying them outbound in a steady stream?

- ☐ digital signal processor
- ☒ playout delay buffer
- ☐ voice codec
- ☐ WFQ

41. Question

Which QoS mechanism allows delay-sensitive data, such as voice, to be sent first before packets in other queues are sent?

- ☐ CBWFQ
- ☐ FIFO
- ☒ LLQ
- ☐ FCFS

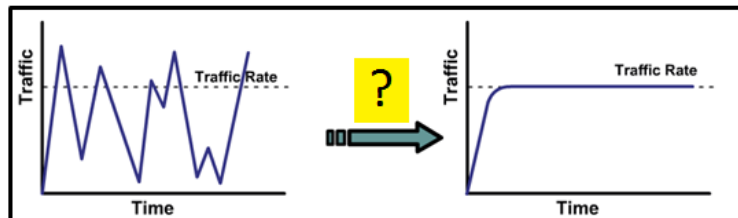
42. Question

Which type of network traffic cannot be managed using congestion avoidance tools?

- ☐ TCP
- ☒ UDP
- ☐ IP
- ☐ ICMP

43. Question

Refer to the exhibit. As traffic is forwarded out an egress interface with QoS treatment, which congestion avoidance technique is used?



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- ☒ traffic shaping
- ☐ weighted random early detection

- ☐ classification and marking
- ☐ traffic policing

44. Question

What is the function of a QoS trust boundary?

- ☐ A trust boundary identifies the location where traffic cannot be remarked.
- ☒ A trust boundary identifies which devices trust the marking on packets that enter a network.
- ☐ A trust boundary only allows traffic to enter if it has previously been marked.
- ☐ A trust boundary only allows traffic from trusted endpoints to enter the network.

45. Question

Which type of QoS marking is applied to Ethernet frames?

- ☒ CoS
- ☐ ToS
- ☐ DSCP
- ☐ IP precedence

46. Question

Which pillar of the Cisco IoT System allows data to be analyzed and managed at the location where it is generated?

- ☐ data analytics
- ☒ fog computing
- ☐ network connectivity
- ☐ application enhancement platform

47. Question

A network administrator has moved the company intranet web server from a switch port to a dedicated router interface. How can the administrator determine how this change has affected performance and availability on the company intranet?

- ☒ Conduct a performance test and compare with the baseline that was established previously.

- ☐ Determine performance on the intranet by monitoring load times of company web pages from remote sites.
- ☐ Interview departmental administrative assistants to determine if web pages are loading more quickly.
- ☐ Compare the hit counts on the company web server for the current week to the values that were recorded in previous weeks.

48. Question

In which stage of the troubleshooting process would ownership be researched and documented?

- ☒ **Gather symptoms.**
- ☐ Implement corrective action.
- ☐ Isolate the problem.
- ☐ Update the user and document the problem.

49. Question

Which troubleshooting approach is more appropriate for a seasoned network administrator rather than a less-experienced network administrator?

- ☒ **a less-structured approach based on an educated guess**
- ☐ an approach comparing working and nonworking components to spot significant differences
- ☐ a structured approach starting with the physical layer and moving up through the layers of the OSI model until the cause of the problem is identified
- ☐ an approach that starts with the end-user applications and moves down through the layers of the OSI model until the cause of the problem has been identified

50. Question

A router has been configured to use simulated network traffic in order to monitor the network performance between the router and a distant network device. Which command would display the results of this analysis?

- ☐ show ip route

- ☐ show ip protocols
- ☒ show ip sla statistics
- ☐ show monitor

51. Question

Which type of tool would an administrator use to capture packets that are going to and from a particular device?

- ☐ NMS tool
- ☐ knowledge base
- ☐ baselining tool
- ☒ protocol analyzer

52. Question

Refer to the exhibit. Which two statements describe the results of entering these commands? (Choose two.)

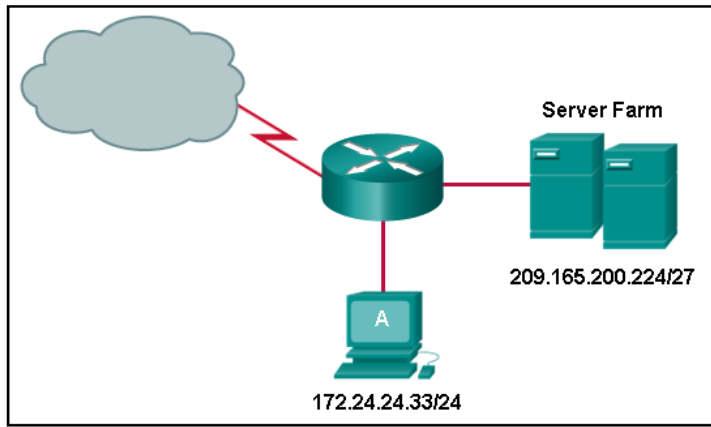
```
R1(config)# logging host 192.168.10.10
R1(config)# logging trap warnings
R1(config)# logging on
```

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- ☒ R1 will send system messages of levels 0 (emergencies) to level 4 (warnings) to a server.
- ☐ R1 will not send critical system messages to the server until the command debug all is entered.
- ☐ R1 will reset all the warnings to clear the log.
- ☐ R1 will output the system messages to the local RAM.
- ☒ The syslog server has the IPv4 address 192.168.10.10.

53. Question

Refer to the exhibit. A network administrator discovers that host A is having trouble with Internet connectivity, but the server farm has full connectivity. In addition, host A has full connectivity to the server farm. What is a possible cause of this problem?

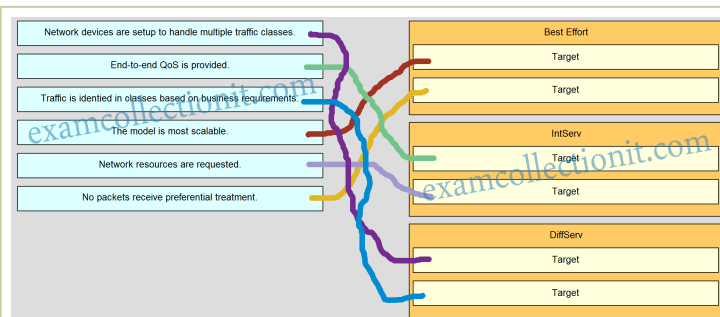


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- ☐ The router has an incorrect gateway.
- ☐ Host A has an overlapping network address.
- ☐ Host A has an incorrect default gateway configured.
- ☐ Host A has an incorrect subnet mask.
- ☒ NAT is required for the host A network.

54. Question

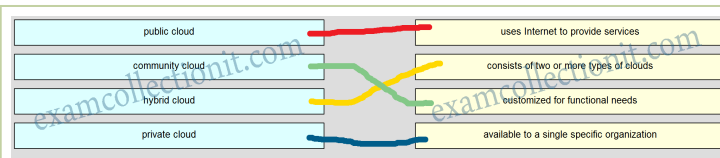
Match the operation to the appropriate QoS model.



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55. Question

Match the cloud model with the description.



CCNA4 v6.0 Final Exam Form C 02

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