Ccna 1 chapter 1 quiz answers 2017



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- QoS
- Ipsec

Which two network components does a teleworker require to connect remotely and securely from home to the corporate network? (Choose two.)

- VPN client software or VPN-enabled router*
- multifunction security appliance
- broadband Internet connection*
- VPN server or concentrator
- authentication server

Which two OSI Layer 1 specifications does DOCSIS define for a cable Internet connection? (Choose two.)

- a deterministic media access method
- channel bandwidth *
- modulation technique*
- VPN tunneling requirements
- the separation of the voice and data transmissions

9. Which cable network communication technology is secure, extremely resistant to noise, and employs spread-spectrum technology?

- FDMA
- CDMA
- TDMA
- S-CDMA*

10. Which standard specifies the channel frequencies and the deterministic access method of cable networks?

DOCSIS*

- LTE
- WIMAX
- 802.16

11. 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."

12. Which medium is used for delivering data via DSL technology through PSTN?

- fiber
- copper*
- radio frequency
- wireless

13. How is voice traffic affected when the customer uses ADSL technology?

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Refer to the exhibit. The exhibited network contains a mixture of Cisco and non-Cisco routers. The command debug ip rip was entered on the JAX router. All routers are running the same version of RIP. Router CHI and Router ORL are not

able to reach the 192.168.1.16/28 network. What is a possible solution to this problem? Enable split horizon in the network. Configure RIPs2 on posters

Configure RIPv2 on routers. Add network 192.168.1.0 to the RIP configuration on the JAX router. Configure JAX Fa0/0 as a passive interface. Enable the Serial0/0/0 interface on the JAX router. Change the IP address on the Fa0/0 interface of the JAX router to 192.168.1.1/24.

16. What field was added to the RIP message header by RFC 1723 to add support for VLSM and CIDR?

subnet mask destination port number address family identifier source and destination IP addresses

17.



Refer to the exhibit. Which command on which router will allow Router1 to learn about the 192.168.0.0/20 network? Router1(config)# ip classless Router1(config-router)# no passive-interface serial 0/1/1 Router2(config-router)# version 2 Router2(config-router)# neighbor 10.0.0.2

18.

Refer to the exhibit. Which two statements are true? (Choose two.) Router1 will install a route to 192.168.0.0/20 Router1 will install a route to 192.168.0.0/24

Security	Setup Wireless Security Access Restrictio
	Firewal VPN Passthrough
Firewa	
	SPIFirewall Protection: Enabled Disabled
Internet Filte	
	Fiter Anonymous Internet Requests
	Filter Multicast
	Filter Internet NAT Redirection
	Eller DENT (Port 113)



Mar 7, 2016 Last Updated: Feb 23, 2021 CCNA 1 Exam Answers, CCNA v6 How to find: Press "Ctrl + F" in the browser and fill in whatever wording is in the question is not here, find it in Questions Bank.NOTE: If you have the new question on this test, please comment Question and Multiple-Choice list in form below this article. We will update answers for you in the shortest time. Thank you! We truly value your contribution to the website. [NEW Version 7.0 - 2020] CCNA 1 v7 Final Exam Answers1. What is a characteristic of a fault tolerant network? a network that protects confidential information from unauthorized accessa network that can expand quickly to support new users and applications without impacting the performance of the service delivered to existing users network that supports a mechanism for managing congestion and ensuring reliable delivery of content to all users network that supports a mechanism for managing congestion and ensuring reliable delivery of content to all users network that supports a mechanism for managing congestion and ensuring reliable delivery of content to all users network that supports a mechanism for managing congestion and ensuring reliable delivery of content to all users network that supports a mechanism for managing congestion and ensuring reliable delivery of content to all users network that supports a mechanism for managing congestion and ensuring reliable delivery of content to all users a network that supports a mechanism for managing congestion and ensuring reliable delivery of content to all users a network that supports a mechanism for managing congestion and ensuring reliable delivery of content to all users a network that supports a mechanism for managing congestion and ensuring reliable delivery of content to all users a network that supports a mechanism for managing congestion and ensuring reliable delivery of content to all users a network that supports a mechanism for managing congestion and ensuring reliable delivery of content to all users a network that supports a mechanism for managing congestion and ensuring reliable delivery of content to all users a network that supports a mechanism for managing congestion and ensuring reliable delivery of content to all users a network that supports a mechanism for managing congestion and ensuring reliable delivery of content to all users a network that supports a mechanism for managing congestion and ensuring reliable delivery of content to all users a mechanism for managing congestion and ensuring reliable delivery of content to all users a mechanism for managing congestion and ensure delivery of content to all users a mechanism for managing congestion and failure Explain: Fault tolerant networks limit the impact of a failure because the networks are built in a way that allows for quick recovery when such a failure occurs. These networks depend on multiple or redundant paths between the source and destination of a message. A scalable network can expand quickly to support new users and applications without impacting the performance of the service being delivered to existing users. Quality of service (QoS) is a mechanism for managing congestion and ensuring reliable delivery of content to all users. Three bank employees are using the corporate network. The first employee uses a web browser to view a company web page in order to read some announcements. The second employee accesses the corporate database to perform some financial transactions. The third employee participates in an important live audio conference with other corporate managers in branch offices. If QoS is implemented on this network, what will be the priorities from highest to lowest of the different data types? financial transactions, audio conference, web pageaudio conference, financial transactions, web page, financial transactions, web page, audio conference priorities for different categories of application data. Thus, this gueuing enables voice data to have priority over transaction data, which has priority over web data.3. What is a benefit of using cloud computing in networking? End users have the freedom to use personal tools to access information and communicate across a business network. Network capabilities are extended without requiring investment in new infrastructure, personnel, or software. Technology is integrated into every-day appliances allowing them to interconnect with other devices, making them more 'smart' or automated. Home networking uses existing electrical wiring to connect devices, making them more 'smart' or automated. Home networking uses existing electrical wiring to connect devices to the network wherever there is an electrical outlet, saving the cost of installing data cables.Explain:Cloud computing extends IT's capabilities without requiring investment in new infrastructure, training new personnel, or licensing new software. These services are available on-demand and delivered economically to any device anywhere in the world without compromising security or function. BYOD is about end users having the freedom to use personal tools to access information and communicate across a business or campus network. Smart home technology is integrated into every-day appliances allowing them more 'smart' or automated. Powerline networking is a trend for home networking that uses existing electrical wiring to connect devices to the network wherever there is an electrical outlet, saving the cost of installing data cables.4. What is the function of the shell in an OS? It interacts with the device hardware. It interfaces between the users and the kernel. It provides dedicated firewall services. It provides the intrusion protection services for the device.Explain:Most operating systems contain a shell and a kernel. The kernel interacts with the hardware and the shell interfaces between the kernel and the users.5. Which connection provides a secure CLI session with encryption to a Cisco switch?a console connectionan AUX connectionan SSH connectionExplain:A CLI session using Secure Shell (SSH) provides enhanced security because SSH supports strong passwords and encryption.6. A network technician is attempting to configure an interface by entering the following command: SanJose(config)# ip address 192.168.2.1 255.255.0. The command is rejected by the device. What is the reason for this? The command is being entered from the wrong mode of operation. The subnet mask information is incorrect. The interface is shutdown and must be enabled before the switch will accept the IP address. Explain: The wrong mode of operation. is being used. The CLI prompt indicates that the mode of operation is global configuration. IP addresses must be configuration mode, as indicated by the SanJose(config-if)# prompt.7. An administrator uses the Ctrl-Shift-6 key combination on a switch after issuing the ping command. What is the purpose of using these keystrokes?to restart the ping process on the remainder of parameters or arguments within a command. To exit from a command. To exit from a commander of parameters or arguments within a command. To exit from a command. configuration mode to privileged mode use the Ctrl-Z keystroke. CTRL-R will redisplay the line just typed, thus making it easier for the user to press Enter and reissue the ping command.8. Refer to the switch, and reissue the ping command.8. Refer to the switch set to press Enter and reissue the ping command.8. Refer to the switch set to press Enter and reissue the ping command.8. Refer to the switch set to press Enter and reissue the ping command.8. Refer to the switch set to press Enter and reissue the ping command.8. Refer to the switch set to press Enter and reissue the ping command.8. Refer to the switch set to press Enter and reissue the ping command.8. Refer to the switch set to press Enter and reissue the ping command.8. Refer to the switch set to press Enter and reissue the ping command.8. Refer to the switch set to press Enter and reissue the ping command.8. Refer to the switch set to press Enter and reissue the ping command.8. Refer to the switch set to press Enter and reissue the ping command.8. Refer to the switch set to press Enter and reissue the ping command.8. Refer to the switch set to press Enter and reissue the ping command.8. Refer to the switch set to press Enter and reissue the ping command.8. Refer to the switch set to press Enter and reissue the ping command.8. Refer to the switch set to press Enter and reissue the ping command.8. Refer to the switch set to press Enter and reissue the ping command.8. Refer to the switch set to press Enter and reissue the ping command.8. Refer to the switch set to press Enter and reissue the ping command.8. Refer to ping command.8. Refer which password is needed to access user EXEC mode?letmeinsecretinlinevtyinlineconinExplain:Telnet accesses a network device through the virtual interface configured under this is required to access the user EXEC mode?letmeinsecretinlinevtyinlineconinExplain:Telnet accesses a network device through the virtual interface configured under this is required to access the user EXEC mode?letmeinsecretinlinevtyinlineconinExplain:Telnet accesses a network device through the virtual interface configured under this is required to access the user EXEC mode?letmeinsecretinlinevtyinlineconinExplain:Telnet accesses a network device through the virtual interface configured under this is required to access the user EXEC mode. to gain entry through the console port, and the enable and enable secret passwords are used to allow entry into the privileged EXEC mode.9. On which switch can be managed remotely?FastEthernet0/1VLAN 1vty 0console 0Explain:Interface VLAN 1 is a virtual interface on a switch, called SVI (switch virtual interface). Configuring an IP address on the default SVI, interface VLAN 1, will allow a switch to be access, but an IP address cannot be configured to allow remote access, but an IP address cannot be configured
to allow remote access, but an IP address cannot be configured on this line. 10. What protocol is responsible for controlling the size of segments and the rate at which segments are exchanged between a web client and a web server? Explain: TCP is a Layer 4 protocol of the OSI model. TCP has several responsibilities in the network. It also controls the size and rate of segments exchanged between clients and servers.11. What is an advantage to using a protocol that is defined by an open standard? A company can monopolize the market. The protocol can only be run on equipment from a specific vendor. An open standard protocol is not controlled or regulated by standards organizations. It encourages competition and promotes choices.Explain: A monopoly by one company is not a good idea from a user point of view. If a protocol can only be run on one brand, it makes it difficult to have mixed equipment in a network. A proprietary protocol is not free to use. An open standard protocol will in general be implemented by a wide range of vendors.12. What are two benefits of using a layered network model? (Choose two.) It assists in protocol design. It speeds up packet delivery. It prevents technology in one layer from affecting other layers. It ensures a device at one layers. It ensures a device at one layers. It ensu models and protocols. Today, if a device is to communicate on the Internet, the device must use the TCP/IP model. The benefits of using a layered model are as follows: assists in protocol designfosters competition between vendors prevents a technology that functions at one layer from affecting any other layerprovides a common language for describing network functionalityhelps in visualizing the interaction between each layer and protocols between each layers of the TCP/IP model? (Choose two.)data linknetworkphysicalsessiontransport Explain: The OSI transport layer is functionally equivalent to the TCP/IP model? transport layer, and the OSI network layer is equivalent to the TCP/IP internet layer. The OSI data link and physical layer PDU? Is included within the TCP/IP application layer. The OSI session layer (with the presentation layer) is included within the TCP/IP application layer. bitsdataframepacketsegmentExplain: Application data is passed down the protocol stack on its way to be transmitted across the network media. During the process, a PDU (protocol data unit) has a different name to reflect its new functions. The PDUs are named according to the protocols of the TCP/IP suite:Data - The general term for the PDU used at the application layer PDUPacket - network layer PDUPacket company backbone for a mission critical database application. The engineer notices that the network throughput? (Choose three.) the amount of traffic that is currently crossing the network throughput? applied to the datathe type of traffic that is crossing the network devices that is crossing the number of network devices that the data is crossing the specified bandwidth of physical links due to multiple factors. These factors include, the amount of traffic, type of traffic, type of traffic, type of traffic, type of traffic, and latency created by the server. Using a tester, the administrator notices that the signals generated by the server NIC are distorted and not usable. In which layer of the OSI model is the error categorized?presentation layernetwork layerPhysical layer of the OSI model. The signal could not the local media. This is the responsibilities in both Layer 1 and Layer 2. The NIC has responsibilities in both Layer 1 and Layer 2. The NIC has responsibilities in both Layer 1 and Layer 2. The NIC has responsibilities in both Layer 1 and Layer 2. The NIC has responsibilities in both Layer 1 and Layer 2. The NIC has responsibilities in both Layer 1 and Layer 2. The NIC has responsibilities in both Layer 1 and Layer 2. The NIC has responsibilities in both Layer 1 and Layer 2. The NIC has responsibilities in both Layer 1 and Layer 2. The NIC has responsibilities in both Layer 1 and Layer 2. The NIC has responsibilities in both Layer 1 and Layer 2. The NIC has responsibilities in both Layer 2. The NIC has responsible to the NIC has responsibilities in both Layer 2. The NIC has responsibilities in both Layer 2. The NIC has responsibilities in both Layer 2. The NIC has responsibilities be in the form of electrical, optical, or radio waves.17. Which type of UTP cable is used to connect to a router or switch console port. A straight-through (also called patch) cable is usually used to interconnect a host to a switch and a switch to a router. A crossover cable is used to interconnect similar devices together, for example, between two switches, two routers, and two hosts. 18. A network administrator is measuring the transfer of bits across the company backbone for a mission critical financial application. The administrator notices that the network throughput appears lower than the bandwidth expected. Which three factors could influence the differences in throughput? (Choose three.) the amount of traffic that is crossing the network the latency that is created by the number of network devices that the data is crossing the bandwidth of the WAN connection to the Internet the reliability of the gigabit Ethernet infrastructure of the backbone Explain: Throughput usually does not match the specified bandwidth of physical links due to multiple factors. These factors include, the amount of traffic, type of traffic, and latency created by the network devices the data has to cross.19. What is a characteristic of UTP cabling?cancellationcladdingimmunity to electrical hazards are characteristics for fiber-optic cabling. A woven copper braid or metallic foil is used as a shield for the inner coaxial cable conductor. Cancellation is a property of UTP cabling where two wires are located adjacent to one another so each magnetic field.20. What are two characteristics of fiber-optic cable? (Choose two.)It is not affected by EMI or RFI.Each pair of cables is wrapped in metallic foil.It combines the technique of cancellation, shielding, and twisting to protect data. It typically contains 4 pairs of fiber-optic wires. It is more expensive than UTP for longer distances. Fiber is immune to EMI and RFI, but costs more, requires more skill to install, and requires more safety precautions. 21 What is a characteristic of the LLC sublayer? It provides the logical addressing required that identifies the device. It provides delimitation of data according to the physical signaling requirements of the medium. It places information in the frame allowing multiple Layer 3 protocols to use the same network interface and media. It defines software processes that provide services to the physical layer. Explain: The Logical Link Control (LLC) defines the software processes that provide services, such as IPv4 and IPv6, to utilize the same network interface and media.22. A network team is comparing physical WAN topologies for connecting remote sites?meshpartial meshhub and spokepoint-to-pointExplain:Partial mesh topologies provide high availability by interconnecting multiple remote sites, but do not require a connected to every other system. A point-to-point topology is where each device is connected to every other system being connected to every other system. star topology that connects to other point-to-point devices.23. What method is used to manage contention-based access on a wireless network?CSMA/CAtoken passingExplain:Carrier sense multiple access with collision avoidance (CSMA/CA) is used with wireless networking technology to mediate media contention. Carrier sense multiple access with collision detection (CSMA/CD) is used with wired Ethernet technology to mediate media contention. Priority ordering and token passing are not used (or not a method) for media access control.24. What are the three primary functions provided by Layer 2 data encapsulation? (Choose three.)error correction through a collision detection methodsession control using port numbersdata link layer addressingplacement and removal of frames from the mediadetection of bits into data signalsExplain: Through the framing process,
delimiters are used to identify the start and end of the sequence of bits that make up a frame. Data link layer addressing is added to enable a frame to be delivered to a destination node. A cyclic redundancy check (CRC) field is calculated on every bit and added to the frame will be processed.25 What will a host on an Ethernet network do if it receives a frame with a destination MAC address? It will forward the frame. It will forward the frame to the next host. It will strip off the data-link frame to the next host. It will forward the frame. It will forward the frame to the next host. It will strip off the data-link frame to the next host. It will strip off the data-link frame to the next host. It will forward the frame. It will forward the frame to the next host. It will strip off the data-link frame to the next host. It will forward the frame to the next host. It will strip off the data-link frame to the next host. It will str each NIC in the network checks every arriving frame to see if the destination MAC address in the frame up to the next OSI layer.26. What are two examples of the cut-through switching method? (Choose two.)store-andforward switchingfast-forward switchingCRC switchingExplain: Store-and forward is often required for QOS analysis. Fast-forward and fragment-free are both variations of the cut-through switching method where only part of the frame is received before the switch begins to forward it.27. What are two actions performed by a Cisco switch? (Choose two.)building a routing table that is based on the first IP address in the frame headerusing the source MAC address of frames to build and maintain a MAC address tableforwarding frames with unknown destination IP addresses to the default gatewayutilizing the MAC address table to forward frames via the destination (frames via the destination frames via the destination frames via the destination frames via the destination (frames via the destination frames source address to build and maintain the Layer 2 MAC address table. It examines the Layer 2 destination address to determine how to forward the frame is sent out a particular port. When the address is unknown, the frame is sent to all ports that have devices connected to that network.28. Which frame forwarding method receives the entire frame and performs a CRC check to detect errors before forwarding the frame?cut-through switchingfast-forward address Explain: ARP, or the Address Resolution Protocol, works by mapping a destination MAC address. The host knows the destination MAC address and uses ARP to resolve the corresponding destination MAC address. The host knows the destination MAC address and uses ARP to resolve the corresponding destination MAC address. and destination application protocolsource and destination IP addressExplain: IP is a Layer 3 header to inspect the Layer 3 header to inspect the Layer 3 header which contains IP-related information including the source and destination IP addresses. 32. What are two services provided by the OSI network layer? (Choose two.)performing error detectionrouting packets toward the destinationencapsulation provides from the transport layerplacement of frames on the mediacollision detection Explain: The OSI network layer provides several services to allow communication between devices: addressing encapsulation provides encapsulation Error detection, placing frames on the media, and collision detection are all functions of the data ink layer.33. Refer to the exhibit. The network for internal LAN addressing. As shown in the exhibit, a static IP address is assigned to the company web server. However, the web server cannot access the Internet. The administrator verifies that local workstations. Which component is incorrectly configured?subnet maskDNS addresshost IP addressdefault gateway addressExplain:When a 255.255.255.255.255.255.255.255.224 subnet mask is used, the first three bits of the last octet are part of the network portion for an IPv4 addresses are 192.168.5.97 through 192.168.5.96/27 network, valid host addresses are 192.168.5.97 through 192.168.5.97 t contain an IP address within the valid IP address of the destination network address o network Explain: ANDing allows us to identify the network address from the IP address and the network mask. 35. What are two functions of NVRAM? (Choose two.) to store the startup configuration fileto store the ARP tableExplain: NVRAM is permanent memory storage, so the startup configuration file is preserved even if the router loses power.36. Refer to the exhibit. What will be the result of entering this configuration the next time a network administrator connects a console cable to the router and no additional commands have been entered? The administrator will be required to enter Cisco123.The administrator will be required to enter Cisco234.The administrator will be required to enter Cisco789.The administrator will be presented with the R1> prompt.Explain:Until both the password and the login access to enable mode.37. What is the dotted decimal representation of the IPv4 address 11001011.00000000.01110001.11010011.201203.0.113.211209.165.201.223Explain:Each digit represents a specific value (128, 64, 32, 16, 8, 4, 2, and 1). Everywhere there is a 1, the specific value is relevant. Add all relevant values in a particular octet to obtain the decimal value. For example binary 11001011 equals 203 in decimal.38. What are three characteristics of multicast transmission? (Choose three.) The source address of a multicast transmission? (Choose transmission can be
used by routers to exchange routing information. Routers will not forward multicast addresses in the range of 224.0.0.255. Computers use multicast messages map lower layer addresses to upper layer addresses. Explain: Broadcast messages consist of single packets that are sent to all hosts on a network segment. These types of messages are used to request IPv4 addresses, and map upper layer addresses to lower layer addresses to lower layer addresses. A multicast transmission is a single packet sent to a group of hosts and is used by routing protocols, such as OSPF and RIPv2, to exchange routes. The address range 224.0.0.0 to 224.0.0.255 is reserved for link-local addresses to reach multicast groups on a local network.39. What are the three ranges of IP addresses that are reserved for internal private use? (Choose three.)10.0.0/14127.16.0.0/12192.31.7.0/24192.168.0.0/16Explain: The private IP address blocks that are used inside companies are as follows:10.0.0.0 /8 (any address that starts with 10 in the first octet)172.16.0.0 /12 (any address that starts with 172.16 in the first two octets)40. What purpose does NAT64 serve in IPv6?It converts IPv6 packets into IPv4 packets. It translates private IPv6 addresses into public IPv6 addresses into a 64-bit addresses into a 64-bit host addresses into a 64-bit addresses into a 64-bit addresses into a 64-bit MAC addresses into a 64-bit matchine to use IPv6 addresses into a 64-bit addresses into a 64-bit matchine to use IPv6 addresses into a 64-bit addresses into a 64-bit addresses into a 64-bit matchine to use IPv6 addresses into a 64-bit addresses into a 64-bit matchine to use IPv6 addresses into a 64-bit ma 2001:0:abcd::12001:0:abcd::12001::abcd::1200 colon ::: The three leading zeros in the last hextet can be removed. The double colon :: can only be used once in an addresses can be assigned to an IPv6-enabled interface?FEC0::/10FDEE::/7FE80::/10FF00::/8Explain:Link-local addresses are in the range of FE80::/10 to FEBF::/10. defined site-local addresses and used the prefix range FEC0::/10, but these addresses were deprecated by the IETF in favor of unique local addresses were deprecated by the IETF in favor of unique local addresses. FDEE::/7. IPv6 multicast addresses have the prefix FF00::/8.43. Which three addresses are valid public addresses? (Choose three.)198.133.219.17192.168.1.24510.15.250.5128.107.12.117192.15.301.24064.104.78.22744. Refer to the exhibit. On the basis of the output, which two statements about network connectivity between these two hosts allows for videoconferencing calls. There are 4 hops between this 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. Explain: The output displays a successful Layer 3 connection between the two hosts is 2 milliseconds. This host does not have a default gateway configured. Explain: The output displays a successful Layer 3 connection between the two hosts is 2 milliseconds. This host does not have a default gateway configured. Explain: The output displays a successful Layer 3 connection between the two hosts is 2 milliseconds. This host does not have a default gateway configured. Explain: The output displays a successful Layer 3 connection between the two hosts is 2 milliseconds. This host does not have a default gateway configured. Explain: The output displays a successful Layer 3 connection between the two hosts is 2 milliseconds. This host does not have a default gateway configured. Explain: The output displays a successful Layer 3 connection between the two hosts is 2 milliseconds. This host does not have a default gateway configured. 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Explain: The output displays a successful Layer 3 connection between the two hosts are successful Layer 3 connection between the two hosts are successful Layer 3 connection between the two hosts are successful Layer 3 connection between the two hosts are successful Layer 3 connection between the two hosts are successful Layer 3 connection between the two hosts are successful Layer 3 connection between the two hosts are successful Layer 3 connection between the two hosts are successful Layer 3 connection between the two hosts are successful Layer 3 connection between the two hosts are successful Layer 3 connection between the two hosts are successful Layer 3 connection between the two hosts are successful Layer 3 connecting the two hosts ar determined that 4 hops exist between them and the average transmission time is 1 milliseconds. Layer 3 connectivity does not necessarily mean that an application can run between the hosts. 45. What type of IPv6 address is FE80::1?loopbacklink-localmulticastglobal unicastExplain:Link-local IPv6 addresses start with FE80::/10, which is any address from FE80:: to FEBF::. Link-local addresses are used extensively in IPv6 and allow directly connected devices to communicate with each other on the link they share.46. How many valid host addresses are used as host bits. With 6 bits, 64 addresses are possible, but one address is for the subnet number and one address is for a broadcast. This leaves 62 addresses that can be assigned to network at the site must accommodate 126 hosts. Which subnet mask would be used that contains the required number of host subnetworks at a small site. The site has the following networks and numbers of devices: Subnetwork A: IP phones - 10 addresses Subnetwork A: IP phones - 2 addresses Subnetwork A: IP phones - 10 addresses Subnetwork A: IP phone - 10 addresses Subnetwor the broadcast address to reach all of the hosts on this network. That leaves only 6 usable IP addresses that can be assigned to hosts in this network is to communicate with other networks.50. Which subnet would include the address 192.168.1.96 as a usable host address?192.168.1.64/26192.168.1.32/27192.168.1.32/28192.168.1.32/28192.168.1.64/29Explain: For the subnet of 192.168.1.64/26, there are 6 bits for host addresses. However, the first and last subnets are the network and broadcast addresses for this subnet. Therefore, the range of host addresses for this subnet is 192.168.1.65 to devices, 6 host bits are needed. With 6 bits, 64 addresses are possible, but one address is for the subnet number and one address is for a broadcast. This leaves 62 addresses that can be assigned to network devices. The mask associated with leaving 6 host bits for addresses are possible, but one address is for a broadcast. This leaves 62 addresses that can be assigned to network devices. The mask associated with leaving 6 host bits for addresses that can be assigned to network devices. The mask associated with leaving 6 host bits for addresses are possible, but one address is for a broadcast. UDP? (Choose two.) default window size connectionless communication port numbering3-way handshakeability to to carry digitized voiceuse of checksumExplain. Both TCP and UDP use source and destination port numbers to distinguish different data streams and to forward the right data segments to the right applications. Error checking the header and data is done by both protocols by using a checksum calculation to determine the integrity of the data that is received. TCP is connection-oriented and uses a 3-way handshake to establish an initial connection to determine the integrity of the data that is received. protocol for carry digitized VoIP signals.53. Why are port numbers included in the TCP header of a segment?to indicate the correct router interface that should be used to encapsulate the datato enable a receiving host to forward the data to the appropriate application allow the receiving host to assemble the packet in the proper order 54. Refer to the exhibit. Consider the IP address of 192.168.10.0/24 that has been assigned to a high school building. The largest network in
this building host to assemble the packet in the proper order 54. Refer to the exhibit. largest network, what would be the network number for the next largest network, which has 40 devices?192.168.10.192192.168.10.192192.168.10.240Explain: The first thing to calculate is what IP addresses are used by the largest LAN. Because the LAN has 100 hosts, 7 bits must be left for host bits. This would be a subnet mask of 255.255.255.128 for the largest LAN (192.168.10.0/25). The IP addresses range from 192.168.10.0 through 192.168.10.127 is the broadcast for this Ethernet LAN (all 1s in the host bits). The next available IP address is the next network number -192.168.10.128.55. Which statement is true about variable-length subnet may only be subnetted one additional time. Bits are returned, rather than borrowed, to create additional subnets. Explain: In variable-length subnet masking, bits are borrowed to create subnets. Additional bits may be borrowed to create additional subnets within the original subnets. This may continue until there are no bits available to borrow.56. In what two situations would UDP be the preferred transport protocol over TCP? (Choose two.)when applications need to guarantee that a packet arrives intact, in sequence, and unduplicated when a faster delivery mechanism is needed when delivery overhead is not an issue when applications do not need to guarantee delivery of the datawhen destination port numbers are dynamicExplain:UDP is a stateless protocol, which means that neither device on either end of the conversation must keep track of the conversation. As a stateless protocol, UDP is used as the Layer 4 protocol for applications that need speedy (best-effort) delivery. An example of such traffic is the transport of digitized voice or video.57. What important information is added to the TCP/IP transport layer header to ensure communication and connectivity with a remote network device? timing and synchronizationdestination and source port numbers are used to identify exactly which protocol and process is requesting or responding to a request.58. What is the TCP mechanism used in congestion avoidance?three-way handshakesocket pairtwo-way handshakesocket reduce the of the window. This congestion avoidance is called sliding windows.59. Which scenario describes a function provided by the transport layer address used to contact another network device on the same network. A student is playing a short web-based movie with sound. The movie and sound are encoded within the transport layer header. A student has two web browser windows open in order to access two web server located on a corporate network. The transport layer formats the screen so the web page appears properly no matter what device is being used to identify the correct application and window within that application.60. A user opens three browsers on the same PC to access www.cisco.com to search for certification course information. The Cisco web server sends a datagram as a reply to the request from one of the web browsers. Which information is used by the TCP/IP protocol stack in the PC to identify which of the three web browsers. source IP address the source port number as the source port number in the registered ports and uses this number in the registered ports and uses this number in the registered ports and uses this number in the registered port number in the registered ports and uses this number as the destination port number in the registered ports and uses this number in the registered ports and uses the destination port number in the registered ports and uses the destination port number in the registered ports and uses the destination port number in the registered ports and uses the destination port number in the registered ports and uses the destination port number in the registered ports and uses the destination port number in the registered ports and uses the destination port number in the registered ports and uses the destination port number in the registered ports and uses the destination port number in the registered ports and uses the destination port number in the registered ports and uses the destination port number in the registered ports and uses the destination port number in the registered ports and uses the destination port number in the registered ports and uses the destination port number in the destination port number in the registered ports and uses the destination port number in the registered ports and uses the destination port number in the registered ports and uses the destination port number in the registered ports and uses the destination port number in the registered ports and uses the destination port number in the destin it sends to the web browser. The PC that is running the web browser application receives the datagram and uses the destination port number that is contained in this datagram to identify the client application.61. What are two ways that TCP uses the sequence numbers in a segment? (Choose two.) to identify missing segments at the destination to reassemble the segments at the remote location specify the order in which the segments travel from source to destination limit the number of segments that can be sent out of an interface at one timeto determine if the packet changed during transit62. Which two tasks are functions of the presentation layer? (Choose two.) compression addressing encryption session control authentication Explain: The presentation layer, and compression are some of the layer. Addressing occurs in the network layer, session control occurs in the application or session layer.63. Which three statements characterize UDP? (Choose three.)UDP provides basic connectionless transport of data at Layer 3.UDP relies on application layer protocols for error detection.UDP is a low overhead protocol that does not provide sequencing or flow control mechanisms.UDP relies on IP for error detection and recovery.UDP provides sophisticated flow control mechanisms.Explain:UDP is a simple protocol that provides the basic transport layer functions. It has much lower overhead than TCP because it is not connection-oriented and does not offer the sophisticated retransmission, sequencing, and flow control mechanisms that provide reliability.64. What is a key characteristic of the peer-to-peer networking model?wireless networking social networking social networking model?wireless networking social networking model?wireless networking social networking model?wireless networking social networking social networking model?wireless networking social netwo without a dedicated server. 65. A technician can ping the IP address of the web server of a remote company but cannot successfully ping the URL address of the same web server. Which software utility that generates a list of hops that were successfully reached along the path from source to destination. This list can provide important verification and troubleshooting information. The ipconfig utility is used to identify which active TCP connections are open and running on a networked host. Nslookup domains represent a country or type of organization, such as .com or .edu.67. A PC obtains its IP address from a DHCP server. If the PC is taken off the network for repair, what happens to the IP address from a DHCP server. If the PC is taken off the network for repair, what happens to the IP address from a DHCP server. If the PC is taken off the network for repair, what happens to the IP address from a DHCP server. If the PC is taken off the network for repair, what happens to the IP address from a DHCP server. is returned to the pool for reuse when the lease expires. The configuration is held by the server to be reissued when the PC is returned. Explain: When a DCHP address is returned to the DHCP pool.68. When planning for network growth, where in the network should packet captures take place to assess network traffic?on as many different network segments as possibleonly at the edge of the network between hosts and the default gatewayonly on the busiest network segments. many segments as possible.69. A wireless host needs to request an IP address. What protocol would be used to process the request?Explain:The DHCP protocol is used to request an IP address. What protocol would be used with network management and FTP is used for file transfer. 70. Which example of malicious code would be classified as a Trojan horse?malware that requires manual user intervention to spread between systems malware that attaches itself to a legitimate program and spreads to other programs when launchedmalware that can automatically spread from one system to another by exploiting a vulnerability in the targetExplain: A Trojan horse is malicious code that has been written specifically to look like a legitimate program. This is in contrast to a virus, which simply attaches itself to an actual legitimate program. Viruses require manual intervention from a user to spread from one system to another, while a worm is able to spread automatically between systems by exploiting vulnerabilities on those devices.71. When applied to a router, which command would help mitigate brute-force password attacks against the router?exec-timeout 30service password-encryptionbanner motd \$Max failed logins = 5\$login block-for 60 attempts 5 within 60Explain: The login block-for command sets a limit on the maximum number of failed login attempts allowed within a defined period of time. If this limit is exceeded, no further logins are allowed for the specified period of time. This helps to mitigate brute-force password cracking since it will significantly increase the amount of time required to crack a password. The exec-timeout command encrypts the password encrypts the password encrypts the password in the running configuration. The banner mote command displays a message to users who are logging in to the device.72. A network technician suspects that a particular network connection between two Cisco
switches is having a duplex mismatch. Which command would the technician use to see the Layer 1 and Layer 2 details of a switch port?show mac-address-tableshow ip interface briefshow interfaceshow running-configExplain:The show interfaces command can be used on both routers and switches to see speed, duplex, media type, and other Layer 1/Layer 2-related information.73. Where are Cisco IOS debug output messages sent by default?Syslog serverconsole linememory buffersvty linesExplain.Debug messages, like other IOS log messages, are sent to the console line by default. Sending these messages to the terminal monitor command.74. Match the description with the associated IOS mode. (not all options are used.) QuestionAnsweruser EXEC modelimited number of basic monitoring commands the first entrance intro the CLI of an IOS deviceprivileged EXEC modelaccessed by entering the enable commandidentified by a prompt ending with the # characterglobal configuration modechanges made affect the operation of the device as a wholeaccessed by entering the configuration modechanges made affect the operation of the device as a wholeaccessed by entering the configuration modechanges made affect the operation of the device as a wholeaccessed by entering the configure terminal command75. Refer to the exhibit. are used.)FastEthernet0/0 -> packets with destination of 172.17.6.15FastEthernet0/1 -> packets with destination of 172.17.12.10FastEthernet1/1 -> packets with testing connectivity to a remote device with the IP address 10.1.1.1. What does the output of this command indicate? Connectivity to the remote device was successful. A router along the path did not have a route to the destination. A ping packet is being blocked by a security device along the path. The connection timed out while waiting for a reply from the remote device. Explain: In the output of the ping command, an exclamation mark (!) indicates that a router along the path did not have a route to the destination and sent an ICMP destination unreachable message back to the source.77. A user is unable to reach the web site when typing in a web browser, but can reach the same site by typing. What is the issue?default gatewayDHCPTCP/IP protocol stackDNSExplain:Domain Name Service (DNS) is used to translate a web address to an IP address. The address of the DNS server is provided via DHCP to host computers. 78. A company is expanding its business to other countries. All branch offices must remain connected to corporate headquarters at all times. Which network technology is required to support this requirement? Explain: A local-area network (LAN) normally connects end users and network resources over a limited geographic area using Ethernet technology. A wireless LAN (WLAN) serves the same purpose as a LAN but uses wireless technologies. A metropolitan-area network (WAN) connects networks together over a large geographic area. WANs can span cities, countries, or the globe.79. A home user is looking for an ISP connection that provides high speed digital transmission over regular phone lines. What ISP connection type should be used?DSLdial-upsatellitecell modemcable modemcable modemcable and services?by limiting the impact of a network failure and services?by quick recovery from network failures providing mechanisms to manage congested network to grow to accommodate new users Explain: Quality of service (QoS), is a vital component of the architecture of a network. With QoS, network administrators can provide applications with predictable and measurable service guarantees through mechanisms that manage congested network traffic.81. What source IP address on the router use by default when the traceroute command is issued?the highest configured IP address on the router use by default when the traceroute command is issued?the highest configured IP address on the router use by default when the traceroute command is issued?the highest configured IP address on the router use by default when the traceroute command is issued?the highest configured IP address on the router use by default when the traceroute command is issued?the highest configured IP address on the router use by default when the traceroute command is issued?the highest configured IP address on the router use by default when the traceroute command is issued?the highest configured IP address on the router use by default when the traceroute command is issued?the highest configured IP address on the router use by default when the traceroute command is issued?the highest configured IP address on the router use by default when the traceroute command is issued?the highest configured IP address on the router use by default when the traceroute command is issued?the highest configured IP address on the router use by default when the tracerouter use by default when tracerouter use by default when the tracerouter use by default when interface Explain: When sending an echo request message, a router will use the IP address of the exit interface as the source IP address. 82. After making configuration changes on a Cisco switch, a network administrator issues a copy runningconfig startup-config command. What is the result of issuing this command? The new configuration will be replaced with the newly configuration will be replaced with the newly configuration will be removed and the original configuration will be restored.Explain:With the copy running-config startup-config command, the content of the current operating configuration file stored in NVRAM will be loaded when the device is restarted.83. Refer to the exhibit. A network administrator is configuration file stored to switch SW1. If the administrator has already logged into a Telnet session on the switch, which password is needed to access privileged EXEC mode?letmeinsecretinlineconinlinevtyinExplain:Telnet accesses a network device through the virtual interface configured with the line VTY command. The password configured under this is required to access the user EXEC mode. The password configured under the line console 0 command is required to gain entry through the console port, and the enable accet passwords are used to allow entry into the privileged EXEC mode.84. Match each item to the type of topology diagram on which it is typically identified. (Not all options are used.)QuestionAnswerphysical topology diagramIP address of a serverExplain: A logical topology diagram typically depicts the IP addressing scheme and groupings of devices and ports. A physical topology diagram shows how those devices are connected to each other and the network, focusing on the physical locations of intermediary devices, configured ports, and cabling.85. Which connectionan AUX connectionan SSH connectionan SSH connectionan sing a console console console console console connectiona sing a

Secure Shell (SSH) provides enhanced security because SSH supports strong passwords and encryption.86. What function does pressing the Tab key have when entering a command in IOS? It aborts the current command and returns to configuration mode. It exits configuration mode and returns to user EXEC mode. It moves the cursor to the beginning of the next line. It completes the remainder of a partially typed will cause the IOS to complete the rest of the command. 87. What layer is responsible for routing messages through an internetwork in the TCP/IP model?internettransportnetwork accesssessionExplain: The TCP/IP model but is rather part of the OSI model.88. Which statement accurately describes a TCP/IP encapsulation process when a PC is sending data to the network access layer. Frames are sent from the network access layer to the internet layer. Explain: When the data is traveling from the PC to the network access layer, which creates frames and then converts the frames to bits. The bits are released to the network media.89 What unique address is embedded in an Ethernet NIC and used for communication on an Ethernet network?host addressIP addressMAC address that is burned into every Ethernet NIC. Each MAC address is unique throughout the world.90. Which procedure is used to reduce the effect of crosstalk in copper cables?requiring proper grounding connectionstwisting opposing circuit wire pairs togetherwrapping the bundle of wires with metallic shieldingdesigning a cable infrastructure to avoid crosstalk interferenceavoiding sharp bends during installationExplain. In copper cables, crosstalk is a disturbance caused by the electric or magnetic fields of a signal on one wire interfering with the signal in an adjacent wire. Twisting opposing circuit wire pairs together can effectively cancel the crosstalk. The other options are effectively cancel the data link layer for a PC connected to an Ethernet network? An IP address is added. The physical address is ad determine if the frame has been changed (has errors) during the transmission.92. What are two characteristics of Ethernet MAC addresses must be unique for both Ethernet and serial interfaces on a device. Explain: An Ethernet MAC addresses are in flat structure and thus they are not routable on the Internet. Serial interfaces do not use MAC addresses. 93. If a device receives an Ethernet frame of 60 bytes, what will it do?drop the frame as it issend an error message to the sending deviceadd random data bytes is considered a "collision fragment" or "runt frame" and is automatically discarded by receiving devices.94. Under which two circumstances will a switch flood a frame out of every port except the port that the frame header is the destination address as the destination address as the destination address as the destination address. The destination address as the destination address as the destination address as the destination address. The destination address as the destination address as the destination address as the destination address. The destination address as the destination address as the destination address. The destination address as the destination address as the destination address. The destination address are destinated as the destination address as the destination address. The destination address are destinated as the destination address are destinated as the destination address. The destination address are destinated as the destination address are destinated as the destination address. The destination address are destinated as the destination address are destinated as the destination address. The destination address are destinated as the d broadcast address. The source address in the frame is a multicast address address address as the destination address, or the destination address is unknown to the switching method has the lowest level of latency?cut-throughstore-and-forwardExplain:Fast-forwardExplain:Fas forwarding. Store-and-forward has the highest latency because it reads the entire frame before beginning to forward it. Both fragment-free and fast-forward has the highest latency because it reads the entire frame before beginning to forward it. Both fragment-free and fast-forward has the highest latency because it reads the entire frame before beginning to forward it. Both fragment-free and fast-forward has the highest latency because it reads the entire frame before beginning to forward it. Both fragment-free and fast-forward has the highest latency because it reads the entire frame before beginning to forward it. Both fragment-free and fast-forward has the highest latency because it reads the entire frame before beginning to forward it. rtracertExplain:On a Windows host, the route print or netstat -r commands can be used to display the host routing table. The netstat -scommand is used to display the route command is used to display the host routing table. 11011010 in binary. One way to do the conversion is one nibble at a time, C = 1100 and A = 1010. Combine the two nibbles gives 11001010.99. At a minimum, which address is required on IPv6-enabled interfaces?link-localunique localsite localglobal unicastExplain:All IPv6 enabled interfaces must at minimum have a link-local address. Other IPv6 addresses can be assigned to the interface as required.100. Which service provides dynamic global IPv6 addressing to end devices without using a server that keeps a record of available IPv6 addresses?stateful DHCPv6SLAACstatic IPv6 addressingstateless DHCPv6Explain:Using stateless address autoconfiguration (SLAAC), a PC can solicit a router and receive the prefix length of the network. From this information the PC can then create its own IPv6 global unicast address.101. What is the purpose of the command ping ::1?It tests the broadcast capability of all hosts on the subnet. It tests the broadcast capability of all hosts on the subnet. It tests the multicast address.101. the reachability of the default gateway for the network. Explain: The address. Using the command ping :: 1 tests the internal IP stack to ensure that it is configured on the host. 102. How many usable IP addresses are available on the 192.168.1.0/27 network?Explain:A /27 mask is the same as 255.255.255.255.224. This leaves 5 host bits. With 5 host bits, 32 IP addresses are possible, but one address represents the subnet number and one address represents the subnet number and one address. network devices.103. What is the process of dividing a data streams into smaller pieces before transmission?segmentationencodingflow controlExplain:Data streams are segmented into smaller more manageable pieces which are then transmitted over the network.104. When IPv4 address?DNS server address?DNS need to be entered when configuring IPv4 for an end device: IPv4 address - uniquely identifies an end device on the networkSubnet mask - determines the router interface used for communicating with hosts in another networkDNS server address - determines the networkSubnet mask - dete the IP address of the Domain Name System (DNS) server DHCP is used) is not configured manually on end devices. It will be provided by a DHCP is used) is not configured manually on end devices. It will be provided by a DHCP is used) is not configured manually on end devices. (Choose two.)clientmasterserverslavetransientExplain:In a peer-to-peer (P2P) network, two or more computers are connected and can share resources without the use of a dedicated server. The computer share resources without the use of a dedicated server. The computer serverslavetransientExplain:In a peer-to-peer (P2P) network, two or more computers are connected and can share resources without the use of a dedicated server. protocol stack? (Choose two.) Explain: The application layer is the top layer of the TCP/IP protocol stack. Application layer protocols include HTTP, DNS, HTML, TFTP, POP, IMAP, FTP, and SMTP.107. What is one difference between the client-server and peer-to-peer network models? Only in the client-server model can file transfers occur. Every device in a peer-to-peer network can
function as a client or a server. A peer-to-peer network transfer using a client-server network. A data transfer using a client or a server be present. Explain: Data transfer using a client or a server. A peer-to-peer network can function as a client or a server. A peer-to-peer network transfer using a client server be present. Explain: Data transfer using a client or a server. A peer-to-peer network transfer using a client server be present. Explain: Data transfer using a client server network. A data transfer using a client server be present. Explain: Data transfer using a client server network transfer using a client server be present. Explain: Data transfer using a client server network. A data transfer using a client server be present. Explain: Data transfer using a client server network. A data transfer using a client server network. A data transfer using a client server network. A data transfer using a client server network transfer using a client server network. A data transfer using a client server network. A data transfer using a client server network transfer using a client server network. A data transfer using a client server network transfer using a client server network. A data transfer using a client server network transfer using a client server network. A data transfer using a client server network transfer using a client server network. A data transfer using a client server network transfer using a client server network transfer using a client server network. A data transfer using a client server network transfer using a client server network transfer using a client server network. A data transfer using a client server network transfer using a client server network transfer using a client server network. A data transfer using a client server network transfer using a client quality of service imposed, and the network media. Transfer speeds are not dependent on the network model type. File transfers can occur using the client-server model or the peer-to-peer and client-server networks.108. What is the function of the HTTP GET message?to request an HTML page from a web server to a web clientto upload content to a web server from a web server to a w clients to request data from the web serverPOST - used by clients to upload data to a web serverPUT - used by clients to upload data to a web server109. Which networking model is being used when an author uploads one chapter document to a file server of a book publisher?peer-to-peermaster-slaveclient/serverpoint-to-pointExplain:In the client/server network model, a network device assumes the role of server in order to provide a particular service such as file transfer and storage. In the client/server model. In contrast, a peer-to-peer network does not have a dedicated server.110. What network service resolves the URL entered on a PC to the IP address of the destination URL must be resolved to an IP address. To do this the client queries a Domain Name System (DNS) server.111. A network engineer is analyzing reports from a recently performed network baseline. Which situation would depict a possible latency issue? a change in the show version output from a traceroutean increase in host-to-host ping response times change in the show version output from a traceroutean increase in host-to-host ping response times change in the show version output from a traceroutean increase in host-to-host ping response times change in the show version output from a traceroutean increase in host-to-host ping response times change in the show version output from a traceroutean increase in host-to-host ping response times change in the show version output from a traceroutean increase in host-to-host ping response times change in the show version output from a traceroutean increase in host-to-host ping response times change in the show version output from a traceroutean increase in host-to-host ping response times change in the show version output from a traceroutean increase in host-to-host ping response times change in the show version output from a traceroutean increase in host-to-host ping response times change in the show version output from a traceroutean increase in host-to-host ping response times change in the show version output from a traceroutean increase in host-to-host ping response times change in the show version output from a traceroutean increase in host-to-host ping response times change in the show version output from a traceroutean increase in host-to-host ping response times change in the show version output from a traceroutean increase in host-to-host ping response times change in the show version output from a traceroutean increase in host-to-host ping response times change in the show version output from a traceroutean increase in host-to-host ping response times change in the show version output from a traceroutean increase in host-to-host ping response times change in the show version output from a traceroutean increase in host-to-host ping response times change in the show version output from a traceroutean in historical reports an administrator can compare host-to-host timers from the ping command and depict possible latency issues.112. Which firewall feature is used to ensure that packets coming into a network are legitimate responses to requests initiated from internal hosts?stateful packet inspectionURL filteringapplication filteringpacket filteringExplain:Stateful packet inspection on a firewall checks that incoming packets are actually legitimate responses to resources based on IP or MAC address. Application filtering can be used to permit or deny access to resources based on port number. URL filtering is used to permit or deny access based on URL or on keywords.113. What is one indication that a Windows displays a DHCP timeout message. The computer receives an IP address that starts with 169.254 The computer cannot ping 127.0.0.1. Windows displays a DHCP timeout message. The computer receives an IP address from a DHCP server? The computer cannot ping 127.0.0.1. Windows displays a DHCP timeout message. The computer receives an IP address that starts with 169.254 The computer cannot ping 127.0.0.1. Windows displays a DHCP timeout message. The computer receives an IP address that starts with 169.254 The computer cannot ping 127.0.0.1. Windows displays a DHCP timeout message. other devices on the same network with IP addresses in the 169.254.0.0/16 range. Explain: When a Windows PC cannot communicate with an IPv4 DHCP server, the computer automatically assigns an IP address in the 169.254.0.0/16 range. command can an administrator issue on a Cisco router to send debug messages to the vty lines?terminal monitor command.115 Fill in the blank. During data communications, a host may need to send a single message to a specific group of destination hosts simultaneously. This message is in the form of a Multicast message is in the form of a specific group of destination with dedicated, symmetric access. Which connection type should the company choose?DSLdialupsatelliteleased linecable modem117. What is the purpose of having a converged network?to provide high availability of data network infrastructure devices to reduce the cost of deploying and maintaining the communication infrastructure Explain: With the development of technology, companies can now consolidate disparate network, thus eliminating the need to create and maintain separate networks. This also reduces the costs associated with providing and maintaining the communication network enables it to guickly grow to support new users and applications without impacting the performance of the service being delivered to existing users?reliabilityscalabilityscalabilityscalabilityscalability.119. After several configuration changes are made to a router, the copy running-configuration startupconfiguration command is issued. Where will the changes be stored?flashROMNVRAMRAMthe configuration registera TFTP server120. Refer to the exhibit. From global configuration mode, an administrator is attempting to create a message-of-the-day banner by using the command banner mote a configuration mode, an administrator is attempting to create a message-of-the-day banner by using the command banner mote a configuration mode, an administrator is attempting to create a message-of-the-day banner by using the command banner mote a configuration mode, an administrator is attempting to create a message-of-the-day banner by using the command banner mote a configuration mode, and ministrator is attempting to create a message-of-the-day banner by using the command banner mote a configuration mode, and ministrator is attempting to create a message-of-the-day banner by using the command banner mote a configuration mode, and ministrator is attempting to create a message-of-the-day banner by using the command banner mote a configuration mode, and ministrator is attempting to create a message-of-the-day banner by using the command banner mote a configuration mode, and ministrator is attempting to create a message-of-the-day banner by using the command banner mote a configuration mode, and the configuration mode a configuratio V When users log in using Telnet, the banner message. The symbol "!" signals the end of a banner message of the banner message. The symbol "!" signals the end of a banner message. The symbol "!" signals the end of a banner message. The symbol "!" signals the end of a banner message. The symbol "!" signals the end of a banner message. The symbol "!" signals the end of a banner message. The symbol "!" signals the end of a banner message. The symbol "!" signals the end of a banner message. The symbol "!" signals the end of a banner message. The symbol "!" signals the end of a banner message. The symbol "!" signals the end of a banner message. The symbol "!" signals the end of a banner message. The symbol "!" signals the end of a banner message. The symbol "!" signals the end of a banner message. The symbol
"!" signals the end of a banner message. The symbol "!" signals the end of a banner mes characteristics of an SVI? (Choose three.) It is designed as a security protocol to protect switch ports. It is not associated with any physical interface on a switch. It is a special interface that allows connectivity by different types of media. It is required to allow connectivity by any device at any location. It provides a means to remotely manage a switch. It is not associated with any physical interface on a switch. It is n is associated with VLAN1 by default. Explain: Switches have one or more switch virtual interfaces (SVIs). SVIs are created in software since there is no physical hardware associated with them. Virtual interfaces (SVIs). configuration "out-of-the-box." The default SVI interface is VLAN1.122. A technician configures a switch (config-if)# in address 192.168.1.1 255.255.255.05witchA(config-if)# no shutdownWhat is the technician configures a switch with these commands: SwitchA(config-if)# no shutdownWhat is the technician configures a switch with these commands: SwitchA(config-if)# no shutdownWhat is the technician configures a switch with these commands: SwitchA(config-if)# no shutdownWhat is the technician configures a switch with these commands: SwitchA(config-if)# no shutdownWhat is the technician configures a switch with these commands: SwitchA(config-if)# no shutdownWhat is the technician configures a switch with these commands: SwitchA(config-if)# no shutdownWhat is the technician configures a switch with these commands: SwitchA(config-if)# no shutdownWhat is the technician configures a switch with these commands: SwitchA(config-if)# no shutdownWhat is the technician configures a switch with these commands: SwitchA(config-if)# no shutdownWhat is the technician configures a switch with these commands: SwitchA(config-if)# no shutdownWhat is the technician configures a switch with these commands: SwitchA(config-if)# no shutdownWhat is the technician configures a switch with these commands: SwitchA(config-if)# no shutdownWhat is the technician configures a switch with these commands: SwitchA(config-if)# no shutdownWhat is the technician configures a switch with these commands: SwitchA(config-if)# no shutdownWhat is the technician configures a switch with these commands: SwitchA(config-if)# no shutdownWhat is the technician configures a switch with these commands: SwitchA(config-if)# no shutdownWhat is the technician configures a switch with these commands: SwitchA(config-if)# no shutdownWhat is the technician configures a switch with the technician configures a switch wit accessExplain: For a switch to have an IP address, a switch virtual interface must be configured. This allows the switch to be managed remotely over the network. 123. In computer communication, what is the purpose of message encoding? to convert information to the appropriate form for transmission to interpret information to the appropriate form for transmission to the appropriate for transmission to the appropriate for transmission to the app into smaller framesto negotiate correct timing for successful communicationExplain:Before a message is sent across a network it must first be encoded. Encoding is the process of converting the data message into another format suitable for transmission across the physical medium. Each bit of the message is encoded into a pattern of sounds, light waves, or electrical impulses depending on the network media over which the bits are transmitted. The destination host receives and decodes the signals in order to a select group of hosts. They must be acknowledged. They are sent to a single destination. They are sent to all hosts on a network. Explain: Multicast is a one-to-many type of communication. Multicast messages are addressed to a specific multicast proup. 125. A large corporation has modified its network to allow users to access network resources from their personal laptops and smart phones. Which networking trend does this describe? bring your own devicevideo conferencingonline collaborationcloud computing126. True or False. A dedicated server is not needed when implementing a peer-to-peer network.127. Which term refers to a network that provides secure access to the corporate offices by suppliers, customers and collaborators? InternetintranetextranetextendednetExplain: The term Internet refers to the worldwide collection of connected networks. Intranet refers to a private connection, employees, or others with authorization. Extranets provide secure and safe access to suppliers, customers, and collaborators. printers on this network that need to use reserve static IP addresses from the pool. How many IP address in the pool are left to be assign to other hosts?130. What is a function of the data link layer?provides the formatting of dataprovides for the exchange of data over a common local mediaprovides end-to-end delivery of data between hostsprovides delivery of data between two applications131. Which communication tool allows real-time collaboration? wikie-mailwebloginstant messaging132. A host is accessing a Web server on a remote network. Which three functions are performed by intermediary network devices during this conversation? (Choose three.) regenerating data signals a signal secting as a client or a serverproviding a channel over which messages travelapplying security settings to control the flow of datanotifying other devices when errors occurserving as the source or destination of the messages 133. Refer to the exhibit. Which action will be successful?PC1 can send a ping to 192.168.1.1?.PC1 can send a ping to 192.168.1.254?.PC2 can send a ping to 192.168.1.254?.135. Fill in the blank.ISOC, IANA, EIA, and IEEE represent standards organizations which help to promote and maintain an open Internet.137. Refer to the exhibit. What is the problem? The entire command, configure terminal, must be used. The administrator is already in global configuration mode. The administrator must first enter privileged EXEC mode before issuing the command. The administrator must connect via the console port to access global configuration mode. 138. A company is expanding its business to other countries. is required to support this requirement?Explain: A local-area network (LAN) normally connects end users and network resources over a limited geographic area such as a city, and a wide-area network (WAN) connects network to give high priority to real-time applications traffic. What two types of network services is the network administrator trying to accommodate? (Choose two.)SNMPinstant messagingvoiceFTPvideo140. Match the situation with the appropriate use of network media.Copper Cableshorizontal cabling structuredesktop PCs in an enterprise officeFiber Opticbackbone cabling in an enterprise officeFiber Opticbackbone cabling in an enterprise officeFiber Opticbackbone cabling structuredesktop PCs in an enterprise officeFiber Opticbackbone cabling in an ent hospitalExplain:Copper Cables - horizontal cabling structure and desktop PCs in offices in an enterpriseFiber optic - backbone cabling in an enterprise Fiber optic - backbone cabling in an enterprise and long-haul networksWireless - coffee shops
and waiting rooms in a hospital141. Which IPv4 address can be pinged to test the internal TCP/IP operation of a hos? implementation details?Request for CommentsIRTF research papersprotocol modelsIEEE standards145. Which address on a PC does not change, even if the PC is moved to a different network?IP address146. What is the protocol that is used to discover a physical address from a known logical address146. address and what message type does it use?ARP, multicastDNS, unicastDNS, broadcastARP, broadcastPING, multicastPING, broadcast147. What will happen if the default gateway address is incorrectly configured on a host?The host cannot communicate with other hosts in the local network. The switch will not forward packets initiated by the host. The host will have to use ARP to determine the correct address of the default gateway. The host cannot communicate with hosts in other networks. A ping from the physical layer of the OSI model? It accepts frames from the physical media. It encapsulates upper layer data into frames. It defines the media access method performed by the hardware interface. It encodes frames into electrical, optical, or radio wave signals. 149. Which two statements describe the characteristics of fiber-optic cabling? (Choose two.) Fiber-optic cabling? (Choose two.) Fiber-optic cabling does not conduct electricity. Fiber-optic cabling has high signal loss. Fiber-optic cabling is primarily used as backbone cabling. Multimode fiber-optic cabling devices. Fiber-optic cabling uses LEDs for single-mode cables. 150. What is contained in the trailer of a data-link frame?logical addressphysical exhibit. A ping to PC3 is issued from PC0, PC1, and PC2 in this exact order. Which MAC addresses will be contained in the S1 MAC addressesjust the PC0 MAC addressesjust the PC1 MAC addressesjust the PC2 MAC addresses addresses will be contained in the S1 MAC addresses will be conta Layer 3 switch differ from a Layer 3 switch. However, this is not supported in Layer 3 switch learns the MAC address can be assigned to a physical port of a Layer 3 switch learns the MAC address can be assigned to a physical port of a Layer 3 switch learns the MAC address can be assigned to a physical port of a Layer 3 switch learns the MAC address can be assigned to a physical port of a Layer 3 switch learns the MAC address can be assigned to a physical port of a Layer 3 switch learns the MAC address can be assigned to a physical port of a Layer 3 switch learns the MAC address can be assigned to a physical port of a Layer 3 switch learns the MAC address can be assigned to a physical port of a Layer 3 switch learns the MAC address can be assigned to a physical port of a Layer 3 switch learns the MAC address can be assigned to a physical port of a Layer 3 switch learns the MAC address can be assigned to a physical port of a Layer 3 switch learns the MAC address can be assigned to a physical port of a Layer 3 switch learns the MAC address can be assigned to a physical port of a Layer 3 switch learns the MAC address can be assigned to a physical port of a Layer 3 switch learns the MAC address can be assigned to a physical port of a Layer 3 switch learns the MAC address can be assigned to a physical port of a Layer 3 switch learns the MAC address can be assigned to a physical port of a Layer 3 switch learns the MAC address can be assigned to a physical port of a Layer 3 switch learns the MAC address can be assigned to a physical port of a Layer 3 switch learns the MAC address can be assigned to a physical port of a Layer 3 switch learns the MAC address can be assigned to a physical port of a Layer 3 switch learns the matching address can be assigned to a physical port of a Layer 3 switch learns the matching address can be assigned to a physical port of a Layer 3 switch learns the matching address can be address that are associated with each of its ports. However, a Layer 2 switch does not.153. What is the purpose of the routing process?to encapsulate data that is used to direct traffic to destination networksto convert a URL name into an IP addressto provide secure Internet file transferto forward traffic on the basis of MAC addresses154. Which technology provides a solution to IPv4 address depletion by allowing multiple devices to share one public IP address?155. Refer to the exhibit. Consider the IP address?155. Refer to the exhibit. interface that connects the company to the Internet. It is the IP address of the Router1 interface that connects PC1 to other devices on the same LAN. It is the IP address of the ISP network device located in the cloud. 156. Which of the following are primary functions of a router1. It is the IP address of the ISP network device located in the cloud. 156. Which of the following are primary functions of a router1. It is the IP address of the ISP network device located in the cloud. 156. Which of the following are primary functions of a router1. It is the IP address of the ISP network device located in the cloud. 156. Which of the following are primary functions of a router1. It is the IP address of the ISP network device located in the cloud. 156. Which of the following are primary functions of a router1. It is the IP address of the ISP network device located in the cloud. 156. Which of the following are primary functions of a router1. It is the IP address of the ISP network device located in the cloud. 156. Which of the following are primary functions of a router1. It is the IP address of the ISP network device located in the cloud. 156. Which of the following are primary functions of a router1. It is the IP address of the ISP network device located in the cloud. 156. Which of the following are primary functions of a router1. It is the IP address of the ISP network device located in the cloud. 156. Which of the following are primary functions of the ISP network device located in the cloud. 156. Which of the following are primary functions of the ISP network device located in the cloud. 156. Which of the following are primary functions of the ISP network device located in the cloud. 156. Which of the following are primary functions of the ISP network device located in the cloud. 156. Which of the following are primary functions of the ISP network device located in the cloud. 156. Which of the following are primary functions of the ISP network device located in the cloud. 156. Which of the following are primary f (Choose two.)packet switchingmicrosegmentationdomain name resolutionpath selectionflow control157. Which two statements correctly describe a router memory type and its contents? (Choose two.)ROM is nonvolatile and stores the running IOS.RAM is volatile and stores the IP routing table.NVRAM, rFTPNVRAM, rFTPNVRAM ssion is not delivered to the destination? A delivery failure message is sent to the source host. The part of the VoIP transmission is re-sent. The transmission continues without the missing portion. 160. Which three IP addresses are private? three.)10.172.168.1172.32.5.2192.167.10.10172.20.4.4192.168.5.254224.6.6.6161. How many bits make up the single IPv6 hextet :10CD:?162. What is the effect of configuring the ipv6 unicast packets on the routerto prevent the router from joining the all-routers multicast group163. Which group of IPv6 addresses cannot be allocated as a host source address?FEC0::/10?FDFF::/7?FEBF::/10?FDFF::/7?FEBF::/10?FDFF::/7?FEBF::/10?FDFF::/7?FEBF::/10?FDFF::/7?FEBF::/10?FDFF::/7?FEBF::/10?FDFF::/7?FEBF::/10?FDFF::/7?FEBF::/10?FDFF::/7?FEBF::/10?FDFF::/7?FEBF::/10?FDFF::/7?FEBF::/10?FDFF::/7?FEBF::/10?FDFF::/7?FEBF::/10?FDFF::/10?FDFF::/10?FDFF::/10?FDFF::/10?FDFF::/10?FDFF::/10?FDFF::/10?FDFF::/10?FDFF::/10?FDFF::/10?FEBF::/10?FDFF::/10?FDFF::/10?FDFF::/10?FDFF::/10?FDFF::/10?FDFF::/10?FDFF::/10?FDFF::/10?FDFF::/10?FDFF::/10?FDFF::/10?FDFF::/10?FDFF::/10?FDFF::/10?FEBF::/10?FEBF::/10?FEBF::/10?FEBF::/10?FEBF::/10?FEBF packet transmissions to monitor the process of a domain name to IP address resolution 165. Refer to the exhibit. A technician has configured a user workstation with the IP address and default subnet masks that are shown. Although the user can access all local LAN resources, the user can access any Internet sites by using either FQDN or IP addresses. Based upon the exhibit, what could account for this failure? The DNS server addresses are incorrect. The default gateway address in incorrect. The wrong subnet mask was assigned to the workstation. The workstation is not in the same network as the DNS servers. 166. A network administrator needs to monitor network traffic to and from servers in a data center. Which features of an IP addresses for easier identificationdynamic addresses for easier identificationdynamic addresses for easier identification dynamic addresses for easi IP addressing scheme should be changed?168. Which two notations are useable nibble boundaries when subnetting in IPv6? (Choose two.)169. A host PC has just booted and is attempting to lease an address through DHCP. Which two messages will the client typically broadcast on the network? (Choose two.)DHCPDISCOVERDHCPOFFERDHCPREQUESTDHCPACKDHCPNACK170. What is the purpose of the network security accounting function?to require users to prove who they areto determine which resources a user can accessto keep track of the actions of a user to prove who they areto determine which resources a user can access to keep track of the actions of a user to prove who they areto determine which resources a user can access to keep track of the actions of a user to prove who they areto determine which resources a user can access to keep track of the actions of a user to prove who they areto determine which resources a user can access to keep track of the actions of a user to prove who they areto determine which resources a user can access to keep track of the actions of a user to prove who they areto determine which resources a user to prove who they areto determine which resources a user to prove who they
areto determine which resources a user to prove who they areto determine which resources a user to prove who they areto determine which resources a user to prove who they areto determine which resources a user to prove who they areto determine which resources a user to prove who they areto determine which resources a user to prove who they areto determine which resources a user to prove who they areto determine which resources a user to prove who they areto determine which resources a user to prove who they areto determine which resources a user to prove who they areto determine which resources a user to prove who they areto determine which resources a user to prove who they areto determine which resources a user to prove who they areto determine which resources a user to prove who they areto determine which resources a user to prove who they areto determine which resources a user to prove who they areto determine which resources a user to prove who they areto determine which resources a user to prove who they areto determine which resources a user to prove who they areto determine which resources a user to prove who administrator enters these commands into the R1 router:R1# copy running-config tftpAddress or name of remote host []?When the router prompts for an address should the administrator enter at the prompt?192.168.9.254192.168.10.2192.168.10.2192.168.11.252192.11.252192.11.252192.11.25219 the IPv6 address type. (Not all options are used.)173. What two preconfigured settings that affect security are found on most new wireless routers? (Choose two.)broadcast SSIDMAC filtering enabledWEP encryption enabledPSK authentication required default administrator password174. Which type of wireless security generates dynamic encryption keys each time a client associates with an AP?175. Fill in the blank.TFTP is a best-effort, connectionless application layer protocol that is used to transfer files.176. Which two components are necessary for a wireless client to be installed on a WLAN? (Choose two.)mediawireless NICcustom adaptercrossover cablewireless client to be installed on a WLAN? software177. Consider the following range of addresses: 2001:0DB8:BC15:00A0:0000:: 2001:0DB8:BC15:00A2:0000:: ... 2001:0DB8:BC15:00A2:0000:: ... 2001:0DB8:BC15:00A2:0000:: ... 2001:0DB8:BC15:00A2:0000:: 2001:0DB8:BC15:00A2:0000:: ... 2001:0DB8:BC15:00A2:0000:: ... 2001:0DB8:BC15:00A2:0000:: 2001:0DB8:BC15:00A2:0000:: ... 2001:0DB8:BC15:0000:: ... 2001:0DB8:BC15:0000:: ... 2001:0DB8:BC15:000:: ... 2001:0DB8:BC15:000:: ... 2001:: ... 2001:: ... 2001:: ... 2001:: ... 2001:: ... 2001:: ... 2001:: ... 2001:: 2001:: ... 2001:: 2001:: 2001:: .. accessing an FTP server on a remote network. Which three functions are performed by intermediary network devices during this conversation? (Choose three.) regenerating data signals acting as a client or a server providing a channel over which messages travelapplying security settings to control the flow of data notifying other devices when errors occurserving as the source or destination of the messages 180. When is a dial-up connection used to connect to an ISP? when a cellular telephone provides the service when a satellite dish is used when a satellite dish is used when a satellite dish. web, searching the library database, and attending an audio conference with their sister school in Japan. If network traffic is priority audio conference, database, HTTP, database, audio conference, database, audio HTTP182. During normal operation, from which location do most Cisco routers run the IOS?183. Which keys act as a hot key combination that is used to interrupt an IOS process?Ctrl-Shift-6Ctrl-ZCtrl-C184. Refer to the exhibit. An administrator wants to change the name of a brand new switch, using the hostname command as shown. What prompt will display after the command is issued??HR Switch(config)#?Switch(config)#?HRSwitch(config)#?HRSwitch(config)#?HRSwitch(config)#?Exitch(config)#?HRSwitch(config)#?Exitch(config)#? gatewayconnectivity between two PCs on the same networkphysical connectivity of a particular PC and the network186. What is the correct order for PDU encapsulation?187. Which device should be used for enabling a host to communicate with another host on a different network?188. A network technician is measuring the transfer of bits across the company backbone for a mission critical application. The technician notices that the network throughput? (Choose three.) the amount of traffic that is currently crossing the network the sophistication of the encapsulation method applied to the data is crossing the network devices that is crossing the network devices that is crossing the number of network devices that the data is crossing the network devices that is crossing the network devices that the data is crossing the network device EMI or RFI.Each pair of cables is wrapped in metallic foil.It combines the technique of cancellation, shielding and twisting to protect data.It has a maximum speed of 100 Mbps.It is the most expensive type of LAN cabling190. What are two features of a physical, star network topology? (Choose two.)It is straightforward to troubleshoot.End devices are connected together by a bus. It is easy to add and remove end devices. All end devices are connected in a chain to each other. Each end system is connected to its respective neighbor. 191. A frame is transmitted from one networking device to another. Why does the receiving device check the FCS field in the frame? to determine the physical address of the sending deviceto verify the network layer protocol information to compare the interface media type between the sending and receiving device192. What will a Layer 2 switch do when the destination MAC address of a received frame is not in the MAC table? It initiates an ARP request. It broadcasts the frame out of all ports on the switch. It notifies the sending host that the frame out of all ports except for the port at which the frame out of all ports except for the port at which the frame out of all ports on the switch. It notifies the sending host that the frame out of all ports except for the port at which the frame out of all ports except for the port at which the frame out of all ports except for the port at which the frame out of all ports except for the port at which the frame out of all ports except for the port at which the frame out of all ports except for the port at which the frame out of all ports except for the port at which the frame out of all ports except for the port at which the frame out of all ports except for the port at which the frame out of all ports except for the port at which the frame out of all ports except for the port at which the frame out of all ports except for the port at which the frame out of all ports except for the port at which the frame out
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(Choose two.)stores routing tablesallows software to be updated without replacing pluggable chips on the motherboardmaintains instructions for POST diagnosticsholds ARP cachestores bootstrap program195. Which statement describes a characteristic of the Cisco router management ports? A console port is used for remote management ports. Each Cisco router has a LED indicator to provide information about the status of the management ports. 196. What happens when part of an Internet radio transmission is not delivered to the destination? A delivery failure message is sent to the source host. The part of the radio transmission continues without the missing portion. 197. What types of addresses make up the majority of addresses make up the majority of addresses within the /8 block IPv4 bit space? private addresses public addresses public addresses make up the majority of addresses make addressesmulticast addressesexperimental addresses198. Refer to the exhibit. What is the maximum TTL value that is used to reach the destination www.cisco.com??199. A company has a network address of 192.168.1.64 with a subnet mask of 255.255.255.192. The company wants to create two subnetworks that would contain 10 hosts and 18 hosts respectively. Which two networks would achieve that? (Choose two.)192.168.1.16/28192.168.1.16/28192.168.1.192/28200. In a network that uses IPv4, what prefix would best fit a subnet containing 100 hosts? 201. Which protocol supports rapid delivery of streaming media? Transmission Control Protocol Real-Time Transport ProtocolSecure File Transfer ProtocolVideo over Internet Protocol202. Why would a network administrator use the tracert utility?to determine the active TCP connections on a PCto check information about a DNS name in the DNS serverto identify where a packet was lost or delayed on a network administrator use the tracert utility?to determine the active TCP connections on a PCto check information about a DNS name in the DNS serverto identify where a packet was lost or delayed on a network administrator use the tracert utility?to determine the active TCP connections on a PCto check information about a DNS name in the DNS serverto identify where a packet was lost or delayed on a network administrator use the tracert utility?to determine the active TCP connections on a PCto check information about a DNS name in the DNS serverto identify where a packet was lost or delayed on a network administrator use the tracert utility?to determine the active TCP connections on a PCto check information about a DNS name in the DNS serverto identify where a packet was lost or delayed on a network administrator use the tracert utility?to determine the active TCP connections on a PCto check information about a DNS name in the DNS serverto identify where a packet was lost or delayed on a network administrator use the tracert utility?to determine the active TCP connections on a PCto check information about a DNS name in the DNS serverto identify where a packet was lost or delayed on a network administrator use the tracert utility?to determine the active TCP connections on a PCto check information about a DNS name in the DNS serverto identify where a packet was lost or delayed on a network administrator use the tracert utility?to determine the active TCP connections on a PCto check information about a DNS name in the DNS serverto identify administrator use the tracert utility?to determine the active TCP connections on a PCto check information about a DNS name in the DNS serverto identify administrator use the tracert utility?to d and DNS server address for a PC203. Refer to the exhibit. What is the significance of the asterisk designates that the file system is bootable. An asterisk designates that the file system is bootable. An asterisk designates that the file system is the default file system is the default file system. The asterisk designates that the file system is the default file system. The asterisk designates that the file system is the default file system is the default file system. The asterisk designates that the file system is the default file system. The asterisk designates that the file system is bootable. An asterisk designates that the file system is the default file system is bootable. An asterisk designates that the file system is system has at least one file that uses that file system.204. Which WLAN security protocol generates a new dynamic key each time a client establishes a connection with the AP?205. Fill in the blank.Point-to-point communications where both devices can transmit and receive on the medium at the same time are known as full-duplex206. Match each characteristic to the appropriate email protocol. (Not all options are used.)207. A host is accessing a Telnet server on a remote network. Which three functions are performed by intermediary network devices during this conversation? (Choose three.) regenerating data signals acting as a client or a server providing a channel over which messages travelapplying security settings to control the flow of datanotifying other devices when errors occurserving as the source or destination of the messages208. Refer to the exhibit. Which area would most likely be an extranet for the company network that is shown?209. Three office workers are using the corporate network. The first employee uses a web browser to view a company web page in order to read some announcements. The second employee accesses the corporate database to perform some financial transactions. The third employee accesses the corporate database to perform some financial transactions. priorities from highest to lowest of the different data types?audio conference, financial transactions, web page, audio conference, web page, financial transactions, web page, audio conference, financial transactions, web page transactions, web page transactions, audio
conference, financial transactions, web page transactions, web page transactions, audio conference, financial transactions, web page transactio enforce priorities for different categories of application data. Thus, this queuing enables voice data to have priority over transaction data, which has priority over transaction data. Thus, this queuing enables to the configuration of a router. After making the changes and verifying the results, the administrator issues the copy running-config startup-config startu lost when the router restarts.212. What information does the loopback test provide? The TCP/IP stack on the device is working correctly. The device has the correct IP address on the network.213. What happens when a switch receives a frame and the calculated CRC value is different than the value is different than the switch places the new CRC value in the FCS field and forwards the frame. The switch drops the frame. The switch drops the frame. The switch places the new CRC value is different than the value that is in the FCS field and forwards the frame. The switch drops the frame to all ports except the port through which the frame. The switch drops the Ethernet cable connection of full-duplex operation of full-duplex operation over a single Ethernet copper or optical cablethe ability to turn a switch interface on or off accordingly if an active connection is detected 216. What are the two main components of Cisco Express Forwarding (CEF)? (Choose two.) adjacency tables t tablesARP tablesforwarding information base (FIB)217. Which statement describes the sequence of processes executed by a router when it receives the packet and forwards it directly to the destination host. It de-encapsulates the packet, selects the appropriate path, and encapsulates the packet to forward it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it toward the destination host. It selects the path and forwards it towards the destination host. It selects the path and forwards the destination host. It selects the path and forwards the destination host. It selects the path and forwards the path and forwards the destination host. It selects the path and forwards the path and forwards the path and forwards the path and forwards th command output not display any information about the directly connected networks? The directly connected networks have to be created manually to be displayed in the routing table. The not shutdown command was not issued on these interfaces. The gateway of last resort was not configured. 219. What happens when part of an Internet television transmission is not delivery failure message is sent to the source host. The transmission is re-sent. The transmission is re-sent. The transmission is not delivery failure message is sent to the destination? A delivery failure message is sent to the source host. The transmission is not delivery failure message is sent to the destination? missing portion.220. Which three statements characterize the transport layer protocols? (Choose three.) TCP and UDP port numbers are used by application of IP packets. UDP uses windowing and acknowledgments for reliable transfer of data. TCP uses windowing and sequencing to provide reliable transfer of data.TCP is a connection-oriented protocol. UDP is a connectionless protocol.221. Which statement is true regarding the UDP client process during a session must be established befor datagrams can be exchanged. A three-way handshake takes place before the transmission of data begins. Application servers have to use port numbers above 1024 in order to be UDP capable. 222. Which two components are configured via software in order for a PC to participate in a network environment? (Choose two.) MAC addressIP addresskernelshellsubnet mask223. Which two reasons generally make DHCP the preferred method of assigning IP addresses to hosts on large networks? (Choose two.) It eliminates most address that every device that needs an address will get one.It provides an address only to devices that are authorized to be connected to the network.It reduces the burden on network support staff.224. What is the subnet address 2001:DB8:BC15:A:12::02001:DB8:BC15::02001:DB8:BC15::02001:DB8:BC15::02001:DB8:BC15::02001:DB8:BC15::02001:DB8:BC15::02001:DB8:BC15::02001:DB8:BC15::02001:DB8:BC15::02001:DB8:BC15::02001:DB8:BC15::02001:DB8:BC15::02001:DB8:BC15::02001:DB8:BC15::02001:DB8:BC15::02001:DB8:BC15::0200: the network security authentication function?to require users to prove who they areto determine which resources a user can access to keep track of the actions of the access to keep track of the ac and Save PT.Open the PT activity. Perform the tasks in the activity instructions and then fill in the blank. The Server0 message isb "winner" 228. Which field in an IPv4 packet header will typically stay the same during its transmission? Packet LengthDestination Address FlagTime-to-Live 229. Launch PT - Hide and Save PTOpen the PT Activity. Perform the tasks in the
activity instructions and then answer the question. Which IPv6 address is assigned to the Serial0/0/0 interface on RT2?2001:db8:abc:1::12001:d configure next-hop Layer 2 addresses. Issue the no shutdown command on routed ports. CEF is enabled by default, so no configuration is necessary. Manually map Layer 2 addresses to Layer 3 addresses to populate the forwarding (CEF)?to populate the forwarding information base (FIB)to maintain Layer 2 next-hop addresses allow the separation of Layer 2 and Layer 3 decision making on populate the forwarding information base (FIB)232. Which statement describes a characteristic of the network layer in the OSI model? It manages the data transport between the processes running on each host. In the encapsulation process, it adds source and destination port numbers to the IP header. When a packet arrives at the destination host, its IP header is checked by the network layer to determine where the packet arrives at the destination host. A user gets an IP address of 192.168.0.1 from the company network administrator. A friend of the user at a different company gets the same IP address and still reach the Internet, send and receive email, and search the web?Both users must be using the same Internet Service Provider.ISPs use Network Address Translation to change a user IP address into a public IP address that can be used on the Internet.ISPs use Domain Name Service to change a user IP address into a public IP address that can be used on the Internet. Both users must be on the same network.234. Why does HTTP use TCP as the transport layer protocol?to ensure the fastes possible download speedbecause HTTP is a best-effort protocolbecause transmission errors can be tolerated easilybecause HTTP requires reliable delivery235. What is the valid most compressed format possible of the IPv6 address 2001:0DB8:0000:AB00:0000:0000:1234? packet inspectionURL filtering238. A network technician is investigating network connectivity from a PC to a remote host?trace 10.1.1.5traceroute 10.1.1.5traceroute 10.1.1.5traceroute 10.1.1.5traceroute 10.1.1.5239. Fill in the blank. To prevent faulty network devices from carrying dangerous voltage levels, equipment must be grounded correctly 240. What is a possible hazard that can be caused by network cables in a fire? The cable insulation could be flammable. Users could be exposed to excessive voltage levels, equipment must be grounded correctly 240. What is a possible hazard that can be caused by network cables in a fire? The cable insulation could be flammable. Users could be exposed to excessive voltage levels, equipment must be grounded correctly 240. What is a possible hazard that can be caused by network cables in a fire? The cable insulation could be flammable. explode.241. What device is commonly used to verify a UTP cable?a multimeteran Optical Time Domain Reflectometera cable testeran ohmmeter242. What needs to be checked when testing a UTP network cable?capacitancewire mapinductanceflexibility243. Refer to the exhibit. A ping to PC2 is issued from PC0, PC1, and PC3 in this exact order. Which MAC addresses will be contained in the S1 MAC address table that is associated with the Fa0/1 port?just PC0 and PC1 MAC addressesjust the PC1 packetscommunication session controlpath determination for data packets245. What does a router use to determine where to send data it receives from the network?an ARP tablea routing table246. Which router via a modem?an inbanc router interfacea console porta serial WAN interfacean AUX port247. A technician is configuration mode should be entered to do this task?user executive modeglobal configuration modeany line configuration modeprivileged EXEC mode248. Which three statements characterize the transport layer protocols? (Choose three.) TCP and UDP port numbers are used by application layer protocols? (Choose three.) TCP and UDP port numbers are used by application layer protocols? data.TCP uses windowing and sequencing to provide reliable transfer of data.TCP is a connection-oriented protocol. UDP is a connection-oriented by Wireshark, which is running on a host. What acknowledgement number will the host return for the TCP segment that has been received?250. Which statement is true about an interface that is configured with the IPv6 address is automatically configured on the interface. A global unicast IPv6 address is dynamically configured on the interface. A global unicast IPv6 address is automatically configured on the interface. A global unicast IPv6 address is automatically configured on the interface. A global unicast IPv6 address is automatically configured on the interface. A global unicast IPv6 address is automatically configured on the interface. A global unicast IPv6 address is automatically configured on the interface. A global unicast IPv6 address is automatically configured on the interface. A global unicast IPv6 address is a global unicast interface are replaced with an IPv6 address.251. Refer to the exhibit. An administrator must send a message to everyone on the router A network. What is the broadcast address for network 172.16.16.255172.16.255 addresses. Which combination of network addresses and prefix lengths will make the most efficient use of addresses when the need is for 2 subnets capable of supporting 10 hosts and 1 subnet that can support 6 hosts?
10.1.1.128/2810.1.1.144/2810.1.1.144/2810.1.1.160/2910.1.1.128/2810.1.1.144/2810.1.1.160/2910.1.1.128/2610.1.1.128/2810.1.12810.1.128/2810.1.12810.1 addresses?254. A network administrator requires access to manage routers and switches locally and remotely. Match the description to the access to the console and the vty lines of a router. Which conclusion can be drawn from this configuration? Unauthorized individuals can connect to the router via Telnet without entering a password. Because the IOS includes the login command on the vty lines by default, access to the vty lines by default, access to the vty lines will not be allowed via Telnet by anyone. Because the login command was omitted, the password cisco command is not applied to the vty lines.256. An administrator issued the service password-encryption command? It will remove encryption from all passwords. It will reverse only the vty and console password encryption. It will not reverse any encryption. It will reverse only the enable password encryption. It will reverse only the result of issuing this command? The new configuration will be replaced with the newly configuration will be removed and the original configuration will be restored.258. What are two features of ARP? (Choose two.) If a host is ready to send a packet to a local destination device and it has the IP address of the destination, it generates an ARP broadcast. An ARP request is sent to all devices on the Ethernet LAN and contains the IP address of the destination, it generates an ARP broadcast. An ARP request is sent to all devices on the Ethernet LAN and contains the IP address of the destination host and its multicast MAC address. When a host is encapsulating a packet into a frame, it refers to the MAC address of the destination host and its multicast MAC address. When a host is encapsulating a packet into a frame, it refers to the MAC address. table to determine the mapping of IP addresses to MAC addresses. If no device responds to the ARP request, then the originating node will broadcast the data packet to all devices on the network administrator is enabling

per.An individual server cannot have multiple services running at the same time. Server security can be improved by closing ports that are associated with unused services. 260. Given the binary address of 11101100 00010001 00001010, which address does this represent in dotted decimal formation of the binary address of 11101100 00010001 00001100 00001010, which address does this represent in dotted decimal formation of the binary address of 11101100 00010001 000010001 00001010, which address does this represent in dotted decimal formation of the binary address of 11101100 00010001 00001010, which address does this represent in dotted decimal formation of the binary address of 11101100 00010001 00001000 00001010, which address does this represent in dotted decimal formation of the binary address of 11101100 00010001 00001000 00001010, which address does this represent in dotted decimal formation of the binary address of 11101100 00010001 000010001 00001000 00001000, which address does this represent in dotted decimal formation of the binary address of 11101100 00010001 00001000 00001000 00001000, which address does this represent in dotted decimal formation of the binary address of 11101100 00010001 00001000 00001000, which address does this represent in dotted decimal formation of the binary address of 11101100 000010001 000010000 00001000, which address does this represent in dotted decimal formation of the binary address of 11101100 000010000 000010000 00001000 (terminary address does the binary address does does the binary address does do 234.17.10.9234.16.12.10236.17.12.6236.17.12.6236.17.12.10261. A particular telnet site does not appear to be responding on a Windows 7 computer. What command could the technician use to show any cached DNS entries for this web page?ipconfig /displaydnsnslookup262. Fill in the blank.Network devices come in two physical configurations. Devices that have expansion slots that provide the flexibility to add new modules have a Modular configuration.263. Refer to the exhibit. What is the maximum TIL value that is configured to use DHCP boots, the client broadcasts a DHCPDISCOVER message to identify any available DHCP servers on the network. A client must wait for lease expiration before it sends another DHCPDISCOVER message contains the IP address of the default gateway. If the client receives several DHCPOFFER messages from different servers, it sends a unicast DHCPREOUEST message to the server from which it chooses to obtain the IP information. 265. Which type of wireless security is easily compromised? 266. A network administrator notices that the throughput on the network appears lower than expected when compared to the end-to-end network bandwidth. Which three factors can explain this difference? (Choose three.) the amount of traffic the number and type of network devices that the data is crossing the bandwidth of the connection to the ISP the reliability of the network devices that the data is crossing the bandwidth of the connection to the ISP the reliability of the network devices that the data is crossing the bandwidth of the connection to the ISP the reliability of the network devices that the data is crossing the bandwidth of the connection to the ISP the reliability of the network devices that the data is crossing the bandwidth of the connection to the ISP the reliability of the network devices that the data is crossing the bandwidth of the connection to the ISP the reliability of the network devices that the data is crossing the bandwidth of the connection to the ISP the reliability of the network devices that the data is crossing the bandwidth of the connection to the ISP the reliability of the network devices that the data is crossing the bandwidth of the connection to the ISP the reliability of the network devices that the data is crossing the bandwidth of the connection to the ISP the reliability of the network devices that the data is crossing the bandwidth of the connection to the ISP the reliability of the network devices that the data is crossing the bandwidth of the connection to the ISP the reliability of the network devices that the data is crossing the bandwidth of the connection to the ISP the reliability of the network devices that the data is crossing the bandwidth of the connection to the ISP the reliability of the network devices that the data is crossing the bandwidth of the connection to the left the data is crossing the bandwidth of the connection to the left the data is crossing the bandwidth of the connection to the left the data is crossing the bandwidth of the connection to the left the data is crossing the bandwidth of the connection to the left the data is crossi backbone267. A host PC is attempting to lease an address through DHCP. What message is sent by the server to the client know it is able to use the provided IP information?DHCPDISCOVERDHCPOFFERDHCPPREQUESTDHCPACK268. A network administrator is configuring access control to switch SW1. If the administrator uses console line to connect to the switch, which password is needed to access user EXEC mode?letmeinsecretinlineconinlinevtvinExplain:Telnet accesses a network device through the virtual interface configured under the line VTY command. The password configured with the line VTY command. console 0 command is required to gain entry through the console port, and the enable secret passwords are used to allow entry into the privileged EXEC mode.269. How many bits would need to be borrowed if a network admin were given the IP addressing scheme of 172.16.0.0/16 and needed no more than 16 subnet with equal number of hosts?270. Question: It will give 4 options about ping, the correct one is: The PC2 will be able to ping 192.168.1.1271. Which statement best describes the operated destination port number of 21 and a randomly generated destination Server. An FTP client uses a source port number of 20 and a randomly generated destination port number during the establishment of control traffic with an FTP client. An FTP server uses a source port number of 21 and a randomly generated destination port number during the establishment of control traffic with an FTP client.272. A client is establishing a TCP session with a server. How is the acknowledgment number in the response segment to the client determined? The acknowledgment number field is modified by adding 1 to the randomly chosen initial sequence number in response to the client. The acknowledgment number is set to 11 to signify an acknowledgment number is set to 1 to signify an acknowledgment packet back to the client.273. Why does layer 3 device perform the ANDing process on a destination host; to identify host address of destination activated service password encryption in the past and you prompt "no service password are modified ?no password at all;password of the lines are in clear;login password at all;password at all;pas the primary reason to subnet IPv6 prefixes?to conserve IPv6 addressesto avoid wasting IPv6 addressesto conserve IPv6 prefixes?to conserve IPv6 addressesto conserve IPv6 prefixes?to conserve IPv6 addressesto conserve IPv6 addre across the media over a given period of time. It indicates the capacity of a particular medium to carry data. It is the guaranteed data transfer rate offered by an ISP.278, Fill in the blank. Use a number. IPv4 multicast addresses are directly mapped to IEEE 802 (Ethernet) MAC addresses using the last 4 of the 28 available bits in the IPv4 multicast group address.279. How could a faulty network device create a source of hazard for a user? (Choose two.) It could apply dangerous voltage to itself.280. What are three important considerations when planning the structure of an IP addressing scheme? (Choose three.) preventing duplication of addresses providing and controlling access documenting the network monitoring security and performance conserving addresses providing and controlling access documenting the network monitoring security and performance conserving addresses table entry? D 10.1.1.0/24 [90/2170112] via 209.165.200.226, 00:00:05, Serial0/0/0282. Which two services or protocols use the preferred UDP protocol for fast transmission and low overhead? (Choose two)283. What action does a DHCPv4 client take if it receives more than one DHCPOFFER from multiple DHCP servers? It sends a DHCPREQUEST that identifies which lease offer the client is accepting. It sends a DHCPNAK and begins the DHCP process over again. It discards both offers and sends a DHCPACK. 284. To what legacy address class does the address 10.0.0.0 belong? Class BClass AClass CClass E285. How many IPv4 addresses are available to be assigned to hosts on a network that has a mask of 255.255.248?286. What type of communication medium is used with a wireless LAN connection?radio wavesfibermicrowaveUTP287. Which method of IPv6 prefix assignment relies on the prefix contained in RA messages?EUI-64staticSLAACstateful DHCPv6288. What is a characteristic of DNS?DNS servers can cache recent queries to reduce DNS query traffic.DNS servers must maintain mappings for the entire DNS structure.DNS relies on a hub-and-spoke topology with centralized servers.289. What is the prefix for the host address 2001:DB8:BC15:A:12AB::1/64?2001:DB8:BC15:A:12AB::1/64?2001:DB8:BC15:A:12001:DB8:BC15:A:12001:DB8:BC15:A:12001:DB8:BC15:A:12001:DB8:BC15:A:12290. What information is maintained in the CEF adjacency table? Layer 2 next hopsMAC address to IPv4 address to IPv4 address to interface mappingsthe IP address of all neighboring routers291. Which command can an administrator issue on a Cisco router to send debug messages to the vty lines?terminal monitorlogging synchronousExplain. Debug messages, are sent to the console line by default. Sending these messages to the terminal lines requires the terminal monitor command.292. What is an example of a top-level domain?root.cisco.com :Top-level domains represent a country or type of organization, such as .com or .edu.293. Which protocols operate at the top layer of the TCP/IP and receiver hosts prior to transmitting data?294. protocol suite? (Choose two.)295. What does a client do when it has UDP datagrams to send? It sends to the server a segment with the SYN flag set to synchronize the conversation. It just sends to the server a segment with the SYN flag set to synchronize the conversation. It just sends to the server a segment with the SYN flag set to synchronize the conversation. It just sends to the server a segment with the SYN flag set to synchronize the conversation. It just sends to the server a segment with the SYN flag set to synchronize the conversation. It just sends to the server a segment with the SYN flag set to synchronize the conversation. It just sends to the server a segment with the ser multicast messages?They are sent to all hosts on a network. They must be acknowledged. They are sent to a select group of hosts. They are sent to a select g BitTorrent, Bitcoin, and LionShare be used?master-slaveclient-basedpeer-to-peerpoint-to-point299. A network technician is attempting to configure an interface by entering the following command: SanJose(config)# ip address 192.168.2.1 255.255.255.0 . The command is rejected by the device. What is the reason for this?The interface is shutdown and must be enabled before the switch will accept the IP address. The subnet mask information is incorrect. The command syntax is wrong. The command syntax is wrong. The command is being entered from the wrong mode of operation. 300. Refer to the exhibit. A company uses the address block of 128.107.0.0/16 for its network. What subnet mask would provide the maximum this does not meet the requirement of providing the maximum number of subnets report this ad

services on a newly installed server. Which two statements describe how services are used on a server? (Choose two.)Data sent with a service that are

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