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CCNA 1 Final Test

- Version 1 -

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Which cable diagram displays the end to end pinout for a console cable used with Cisco devices?

*Cable B

=====

How many broadcast domains are shown in the diagram?

*three

=====

Refer to the exhibit. What device does Device X represent in the graphic to allow PC1 to ping PC 4?

*router

=====

Refer to the exhibit. How many collision domains are present in the topology?

*6

=====

What can be verified by successfully pinging the reserved loopback address on a host?

*The TCP/IP stack of the local host is installed correctly.

=====

When using Category 5 UTP cable, which RJ-45 pin pairs are used to exchange data between hosts on an Ethernet network?

*1 and 2; 3 and 6

=====

A collision has occurred on an Ethernet network. Which three statements explain the CSMA/CD process? (Choose three.)

*After the jam signal, all transmission stops for a random period.

*When the backoff period expires, each host checks to see whether the networking media is idle and then attempts to transmit.

*When the collision is detected, the hosts continue to transmit using a jam pattern for a short time to ensure that all hosts detect the collision.

=====

A workstation is browsing a web server. What will be the partial contents of the segment sent from the workstation to the web server?

*source port 1026, destination port 80, sequence number 1, ack number 0

=====

Which protocols are TCP/IP application layer protocols? (Choose two.)

*FTP

*SMTP

=====

A company has the following addressing scheme requirements:

-currently has 25 subnets-uses a Class B IP address-has a maximum of 300 computers on any network segment-needs to leave the fewest unused addresses in each subnet

What subnet mask is appropriate to use in this company?

*255.255.254.0

=====

Refer to the exhibit. Host A has been added to the network. However, host A cannot communicate with the server B or the Internet. All cables have been tested and are functioning to standards.

At which layer of the OSI model is this problem occurring?

*Layer 3

=====

Refer to the exhibit. Workstation 1 pings the Fa0/1 interface of Router 1. Which MAC address will workstation 1 obtain during the ARP request for this communication?

*00-08-A3-B6-CE-02

=====

When the receiving workstation detects an error in the data it has received, it does not acknowledge receipt of the data. The source workstation retransmits the unacknowledged data. Which layer of the OSI model supports this process of retransmission?

*transport

=====

Which subnet masks would be valid for a subnetted Class B address? (Choose two.)

*255.255.252.0

*255.255.255.192

=====

A network user is using the FTP protocol to transfer data from the local host to an FTP server. The local host is also using the SNMP protocol to report the system status to the network management system. Which statement describes the communication from the host?

*FTP uses TCP to establish a session before any data is transferred.

=====

A NIC of a computer has been assigned an IP address of 172.31.192.166 with a mask of 255.255.248. To which subnet does the IP address belong?

*172.31.192.160

=====

Which devices segment collision domains? (Choose two.)

*switch

=====

Refer to the exhibit. Which type of Category 5 cable is used to make an Ethernet connection between Host A and Host B?

*crossover cable

=====

Refer to the exhibit. What must be configured on Host B to allow it to communicate with Host C? (Choose three.)

*a unique host IP address

*the default gateway address

*the subnet mask for the LAN

=====

Refer to the exhibit. The connections in the exhibit are labeled A through E. Which of these indicate WAN links? (Choose three.)

*link B

*link C

*link D

=====

Refer to the exhibit. Which type of UTP cable should be used to connect Switch1 to Switch2?

*crossover

=====

A user initiates three simultaneous FTP connections from the local host to the same FTP server.

Which OSI layer is responsible for establishing and managing these different FTP connections?

*session

=====

Which layer of the OSI model defines the process of adding the source and destination IP addresses to a data packet?

*network

=====

Refer to the exhibit. What is the purpose of the highlighted address?

*It allows the NIC to communicate with other devices on the same network.

=====

What is the correct number of usable subnetworks and hosts for the IP network address 192.168.99.0 subnetted with a /29 mask?

*30 networks / 6 hosts

=====

Refer to the exhibit. Which type of cabling should be used at each of the connection points shown?

*A-straight-through B-crossover C-straight-through D-fiber E-straight-through

=====

Which combination of network id and subnet mask correctly identifies all IP addresses from 172.16.128.0 through 172.16.159.255?

*172.16.128.0 255.255.224.0

=====

Which binary number is a representation of the decimal number 248?

*11111000

=====

What are three characteristics of the TCP protocol? (Choose three.)

*forces the retransmission of unacknowledged packets

*creates a virtual session between end-user applications

*is responsible for breaking messages into segments and reassembling them at their destination

=====

Refer to the exhibit. A company needs to attach workstation E at a point 150 meters from an existing hub. What device should be placed at location D to allow the new host to connect to the network with the least amount of latency?

*repeater

=====

Refer to the exhibit. An instructor in the network class has given the students the network diagram and asks the students to select the appropriate network devices. The goals are to provide a collision-free LAN environment and to provide Internet connectivity. What is the correct design?

*Replace Box 1 with a Layer 2 switch and Box 2 with a router.

=====

A simplified CAM table for Switch1 is shown in the exhibit. If host A sends a frame with a destination MAC address of 66C, how does the switch process this frame?

*The switch sends the frame out ports 2, 3, and 4.

=====

Refer to the exhibit. A newly hired technician has a task of terminating CAT 5 UTP cables. The network administrator visually examined the cables the technician terminated. Some of the cables have connectors as shown in the exhibit. What should the network administrator explain to the technician about the cables?

*The cable in Graphic A will produce more crosstalk.

=====

Which of the following increases the potential for a collision to occur?

* an increase in the number of devices attached to the hub

=====

Which type of address is 223.168.17.167/29?

*multicast address

=====

Refer to the exhibit. The internetwork in the exhibit has been assigned the IP address 172.20.0.0.

What would be the appropriate subnet mask to maximize the number of networks available for future growth?

*255.255.252.0

=====

Workstation A sends data to workstation B. What will have to be altered as the data passes through the router? (Choose two.)

*Layer 1 bit pattern

*Layer 2 frames

=====

What should a network administrator consider when migrating to Gigabit Ethernet architecture from Fast Ethernet? (Choose three.)

*Existing NICs might need to be upgraded.

*Existing switches might need to be upgraded.

*Existing UTP must be tested for CAT 5e compatibility.

=====

What type of routing is it when the network administrator manually configures a route?

*static

=====

Refer to the exhibit. A network administrator attempts to increase the available bandwidth for workstation A by setting the NIC to full-duplex mode. After the configuration is changed, there are increased collisions and errors occurring. Why is this occurring in the network?

*The hub will be continually producing a jam signal.

=====

Refer to the received frame in the exhibit. In what two ways is the information from the received frame used by a switch? (Choose two.)

*192.168.10.11 is left intact as the frame is forwarded.

*To make the forwarding decision, the switch looks in its switch table for address aaaa.bbbb.cccc.

=====

An IT administrator desires to install a Gigabit Ethernet link between the two buildings shown in the exhibit. Conflicting suggestions have been given to the administrator from a variety of sources.

Which suggestion should the administrator adopt to ensure the success of this project?

*A combination of UTP, repeaters, and multimode optical fiber will reach 900 meters with Gigabit Ethernet.

=====

Refer to the exhibit. What is the order of the TCP/IP Protocol Data Units as data is moved as indicated through the OSI model?

*data, segments, packets, frames, bits

=====

Which technologies are considered to be WAN technologies? (Choose two.)

*DSL

*Frame Relay

=====

Which statement describes a star topology?

*Each host is connected to a hub or switch, either of which acts as a central point for all network connections.

=====

Refer to the exhibit. A network administrator is testing a connectivity issue in the network. The administrator discovers that host A cannot communicate with host B, host C, or RouterA. A ping command on host A to 127.0.0.1 succeeds. The NIC link indicator on host A is illuminated. Temporarily, the administrator removes the cable from host A and uses the LAN cable from host B to connect.

connect from host A to port 1 on the switch. While using the substitute cable, host A can communicate with host C and RouterA. At which layer of the OSI model was the problem occurring?

*physical

=====

Refer to the exhibit. What type of cable connects the two routers together without any intermediary device?

*crossover

=====

Refer to the exhibit. What is an advantage of using this type of topology?

*Network communication continues in the event of a break.

=====

Refer to the exhibit. Host A is being manually configured for connectivity to the LAN. Which two addressing scheme combinations are possible configurations that can be applied to the host for connectivity? (Choose two.)

*Address - 192.168.1.82 Gateway - 192.168.1.65

*Address - 192.168.1.70 Gateway - 192.168.1.65

=====

Which of the following devices extend a collision domain? (Choose two.)

*hub

*bridge-(check)

*repeater

=====

A technician needs to connect a FastEthernet port from a router to a FastEthernet port on a switch. The graphic shows the RJ-45 cable ends for a patch cable. What result can be expected if this cable is used for the link?

*The cable will be able to pass traffic between the devices.

=====

=====

=====

Refer to the exhibit. How many broadcast domains are shown?

*Three

=====

When using Category 5 UTP cable, which RJ-45 pin pairs are used to exchange data between hosts on an Ethernet network?

*1 and 2; 3 and 6

=====

Refer to the exhibit. A network administrator has configured a network after subnetting the network number 192.168.0.0/28. Workstation 1 is not able to communicate with Workstation 2. What is the cause of this loss in communications?

*Workstation 1 is not on the same network that the Router 1 LAN interface is on.

=====

Refer to the exhibit. The hub and the switch are operating using factory default settings. Which hosts will receive the frame if host A transmits a broadcast frame?

*Workstations B, C, D, E, and the router will receive the data.

=====

Refer to the exhibit. A network associate needs to establish an Ethernet connection between Host A and Host B. However, the distance between the two hosts is further than the cabling standards allow. Which two devices that operate at the physical layer of the OSI can be used to allow Host A and Host B to communicate? (Choose two.)

*hub

*repeater

=====

Refer to the exhibit. A network technician is trying to determine the correct IP address configuration for Host A. What is a valid configuration for Host A?

IP address: 192.168.100.20; Subnet Mask: 255.255.255.240; Default Gateway: 192.168.100.17

=====

Which devices will create multiple collision domains in an Ethernet network? (Choose two.)

*switch

*router

=====

Refer to the exhibit. What is the order of the TCP/IP Protocol Data Units as data is moved as indicated through the OSI model?

*bits, frames, packets, segments, data

=====

Refer to the exhibit. The connections in the exhibit are labeled A through E. Which of these indicate LAN links? (Choose two.)

*link A

*link E

=====

Refer to the exhibit. Which type of UTP cable should be used to connect Host A to Switch1?

*straight-through

=====

Based on the graphic above, which of the following occurs as each host system comes online in the topology?

*The switch adds MAC address to the bridge table as each host sends a frame.

=====

How does a switch learn the addresses of hosts connected to its ports?

*The switch reads the source MAC address on incoming frames and records it in CAM.

=====

Refer to the exhibit. Which diagram represents the network topology that an administrator would prefer, and why would the administrator prefer it?

*Diagram A. It will better provide available bandwidth to the hosts.

=====

After an unsuccessful ping to the local router, the technician decides to investigate the router. The technician observes that the lights and fan on the router are not operational. In which layer of the OSI model is the problem most likely occurring?

*physical

=====

A user initiates three simultaneous FTP connections from the local host to the same FTP server.

Which OSI layer is responsible for establishing and managing these different FTP connections?

*session

=====

Which technologies are considered to be LAN technologies? (Choose two.)

*Token Ring

*Ethernet

=====

A router interface has been assigned an IP address of 172.16.192.166 with a mask of 255.255.255.248. To which subnet does the IP address belong?

*172.16.192.160

=====

What is the correct number of usable subnetworks and hosts for the IP network address 192.168.35.0 subnetted with a /28 mask?

*14 networks / 14 hosts

=====

In the exhibit, the connections between the devices are labeled A, B, C, D, and E. For each connection, what is the correct UTP cable to use?

*A=rollover, B=straight, C=straight, D=crossover, E=crossover

=====

A network administrator has added a new switch to the network. The new switch connects to an existing switch that is already installed. Which UTP cable correctly connects the new switch to the existing switch?

*crossover

=====

Refer to the exhibit. What must be configured on Host B to allow it to communicate with the file server? (Choose three.)

*a unique host IP address

*the subnet mask for the LAN

*the default gateway address

=====

Refer to the exhibit. Host A pings Host B. What can be concluded about the source and destination addresses contained in the communication sent by Router R5 when it forwards the ping out the Ethernet interface to Host B? (Choose two.)

*source MAC address: 5555.AAAA.6666

*destination IP address: 192.168.10.134

=====

What is the decimal representation of the binary number 11111000?

*248

=====

A large company has a network that is constantly changing. The routing tables in the routers need to be adjusted to reflect the changes in the routing paths. What type of routing would the network administrator implement?

*dynamic routing protocols

=====

Which network device creates the highest amount of latency?

*router

=====

Why do vendors utilize the OSI model when designing networking products?

*It ensures greater compatibility and interoperability with equipment from different vendors.

=====

Which type of address is 192.168.170.112/28?

*subnetwork address

=====

A router determines the path to deliver a packet. What layer of the OSI model does this fact represent?

*network

=====

What are important characteristics to consider when purchasing a network interface card? (Choose two.)

- *media used on the network
- *system bus used on the computer

=====

Which subnet masks could be used when subnetting a Class B IP address? (Choose two.)

- *255.255.255.240
- *255.255.192.0

=====

Refer to the exhibit. The network administrator wants to create a subnet for the point-to-point connection between the two routers. Which subnet mask would provide enough addresses for the point-to-point link with the least number of wasted addresses?

- *255.255.255.252

=====

Which characteristics are common to both UDP and TCP? (Choose two.)

- *uses port numbers
- *classified as a transport layer protocol

=====

Two peer hosts are exchanging data using TFTP. During the current session, a device fails to arrive at the destination. Which statement is true regarding the retransmission of the device?

- *device retransmission is controlled by the application.

=====

Which protocols are TCP/IP application layer protocols? (Choose two.)

- *TFTP
- *DNS

=====

Which of the following statements are correct about CSMA/CD? (Choose three.)

- *It is a media access method used in LANs.
- *When a device needs to transmit, it checks to see if the media is available.

*Only one device can successfully transmit at a time.

=====

Consider the networks shown in the exhibit. Host A is sending packets to host B. Which layer of the OSI model is being used when the router is making the calculated decision to determine which interface to send the packet out?

*network

=====

An Ethernet host receives a frame, calculates the FCS, and compares the calculated FCS to the FCS received in the frame. The host finds that the two FCS values do not match. What action will be taken by the host?

*The host discards the frame.

=====

A computer technician is asked to make a network cable. One end of the cable is pinned as a 568A and the other as a 568B. For what purposes can this cable be used? (Choose two.)

*to connect a switch to a switch

*to connect a hub to a switch

=====

Why would a company install a switch instead of a hub when building or expanding a corporate network?

*A switch provides more bandwidth by sending frames only out the port to which the destination device is attached. A hub sends the frame out all ports except the source port.

=====

Refer to the exhibit. A newly hired technician has a task of terminating CAT 5 UTP cables. The network administrator visually examined the cables the technician terminated. Some of the cables have connectors as shown in the exhibit. What should the network administrator explain to the technician about the cables?

*The cable in Graphic A will produce more crosstalk.

=====

Refer to the exhibit. What kind of Ethernet cable is represented?

*straight-through cable

=====

Which cable diagram displays the end to end pinout for a crossover cable used with Cisco devices?

*Cable C

=====

Refer to the exhibit. Workstation 1 pings the Fa0/1 interface of Router 1. Which MAC address will workstation 1 obtain during the ARP request for this communication?

*00-08-A3-B6-CE-02

=====

A technician is testing connectivity between the devices using the ping command. Pings between Host B and Host A were successful. The technician could not ping the R3 address 172.16.3.2 from Host A. The technician issued ipconfig from Host A and saw the information displayed in the exhibit. What is the most likely problem?

*The default gateway of Host A is incorrect.

=====

Refer to the exhibit. The physical documentation shows a portion of the internetwork of the ABC Company. Which segments will be free of collisions?

*segments 3, 4, and 5

=====

The ping command can be used to test connectivity between hosts. Which OSI model layers are verified by this test?

*Layers 1, 2 and 3

=====

Which physical network topology is easy to monitor and troubleshoot, easy to add new devices to as the network expands, but subject to complete failure when a central hub or switch ceases to work?

*star

=====

A network administrator has installed a 24 port switch and connected 10 computers with 10/100

NICs. If the NICs are operating at 100 Mbps, how much bandwidth is available for each computer to receive data?

* 100 Mbps

=====

How many collision domains are shown in the diagram?

*seven

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=====

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*Three

=====

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*hub*****

*repeater*****

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*straight-through

=====

A wireless workstation must scan to find an available access point. What are two characteristics of a wireless workstation in passive scanning mode? (Choose two.)

*The wireless node listens for beacons from an access point advertising an SSID and then attempts to join the network

*The wireless node listens for a beacon from an access point with the same WEP key and is allowed to authenticate to the WLAN.

=====

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=====

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