

CISCO 100-101 EXAM QUESTIONS & ANSWERS



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ACTUAL  EXAMS

CISCO 100-101 EXAM QUESTIONS & ANSWERS

Exam Name: CCNA Interconnecting Cisco Networking Devices 1 (ICND1)

Mix Question I**QUESTION 1**

How does a switch differ from a hub?

- A. A switch does not induce any latency into the frame transfer time.
- B. A switch tracks MAC addresses of directly-connected devices.
- C. A switch operates at a lower, more efficient layer of the OSI model.
- D. A switch decreases the number of broadcast domains.
- E. A switch decreases the number of collision domains.

Correct Answer: B

Section: (none)

Explanation

QUESTION 2

How does TCP differ from UDP? (Choose two.)

- A. TCP provides best effort delivery.
- B. TCP provides synchronized communication.
- C. TCP segments are essentially datagrams.
- D. TCP provides sequence numbering of packets.
- E. TCP uses broadcast delivery.

Correct Answer: BD

Section: (none)

Explanation

QUESTION 3

The network manager has requested a 300-workstation expansion of the network. The workstations are to be installed in a single broadcast domain, but each workstation must have its own collision domain. The expansion is to be as cost-effective as possible while still meeting the requirements. Which three items will adequately fulfill the request? (Choose three).

- A. one IP subnet with a mask of 255.255.254.0
- B. two IP subnets with a mask of 255.255.255.0
- C. seven 48-port hubs
- D. seven 48-port switches

- E. one router interface
- F. seven router interfaces

Correct Answer: ADE

Section: (none)

Explanation

QUESTION 4

Which two statements describe the operation of the CSMA/CD access method? (Choose two.)

- A. In a CSMA/CD collision domain, multiple stations can successfully transmit data simultaneously.
- B. In a CSMA/CD collision domain, stations must wait until the media is not in use before transmitting.
- C. The use of hubs to enlarge the size of collision domains is one way to improve the operation of the CSMA/CD access method.
- D. After a collision, the station that detected the collision has first priority to resend the lost data.
- E. After a collision, all stations run a random backoff algorithm. When the backoff delay period has expired, all stations have equal priority to transmit data.
- F. After a collision, all stations involved run an identical backoff algorithm and then synchronize with each other prior to transmitting data.

Correct Answer: BE

Section: (none)

Explanation

QUESTION 5

What does a host on an Ethernet network do when it is creating a frame and it does not have the destination address?

- A. drops the frame
- B. sends out a Layer 3 broadcast message
- C. sends a message to the router requesting the address
- D. sends out an ARP request with the destination IP address

Correct Answer: D

Section: (none)

Explanation

QUESTION 6

Which address type does a switch use to make selective forwarding decisions?

- A. source IP address
- B. destination IP address
- C. source and destination IP address
- D. source MAC address
- E. destination MAC address

Correct Answer: E

Section: (none)

Explanation

QUESTION 7

On a Cisco switch, which protocol determines if an attached VoIP phone is from Cisco or from another vendor?

- A. RTP
- B. TCP
- C. CDP
- D. UDP

Correct Answer: C

Section: (none)

Explanation

QUESTION 8

At which layer of the OSI model does the protocol that provides the information that is displayed by the show cdp neighbors command operate?

- A. application
- B. transport
- C. network
- D. physical
- E. data link

Correct Answer: E

Section: (none)

Explanation

QUESTION 9

Which two characteristics apply to Layer 2 switches? (Choose two.)

- A. increases the number of collision domains
- B. decreases the number of collision domains
- C. implements VLAN
- D. decreases the number of broadcast domains
- E. uses the IP address to make decisions for forwarding data packets

Correct Answer: AC

Section: (none)

Explanation

QUESTION 10

What is the subnet address for the IP address 172.19.20.23/28?

- A. 172.19.20.0
- B. 172.19.20.15
- C. 172.19.20.16
- D. 172.19.20.20
- E. 172.19.20.32

Correct Answer: C

Section: (none)

Explanation

QUESTION 11

An administrator is working with the 192.168.4.0 network, which has been subnetted with a /26 mask. Which two addresses can be assigned to hosts within the same subnet? (Choose two.)

- A. 192.168.4.61
- B. 192.168.4.63
- C. 192.168.4.67
- D. 192.168.4.125
- E. 192.168.4.128
- F. 192.168.4.132

Correct Answer: CD

Section: (none)
Explanation

QUESTION 12

What is the best practice when assigning IP addresses in a small office of six hosts?

- A. Use a DHCP server that is located at the headquarters.
- B. Use a DHCP server that is located at the branch office.
- C. Assign the addresses by using the local CDP protocol.
- D. Assign the addresses statically on each node.

Correct Answer: D
Section: (none)
Explanation

QUESTION 13

Which one of the following IP addresses is the last valid host in the subnet using mask 255.255.255.224?

- A. 192.168.2.63
- B. 192.168.2.62
- C. 192.168.2.61
- D. 192.168.2.60
- E. 192.168.2.32

Correct Answer: B
Section: (none)
Explanation

QUESTION 14

Which IOS command is used to initiate a login into a VTY port on a remote router?

- A. router# login
- B. router# telnet
- C. router# trace
- D. router# ping
- E. router(config)# line vty 0 5

F. router(config-line)# login

Correct Answer: B

Section: (none)

Explanation

QUESTION 15

In the configuration of NAT, what does the keyword overload signify?

- A. When bandwidth is insufficient, some hosts will not be allowed to access network translation.
- B. The pool of IP addresses has been exhausted.
- C. Multiple internal hosts will use one IP address to access external network resources.
- D. If the number of available IP addresses is exceeded, excess traffic will use the specified address pool.

Correct Answer: C

Section: (none)

Explanation

QUESTION 16

When configuring NAT, the Internet interface is considered to be what?

- A. local
- B. inside
- C. global
- D. outside

Correct Answer: D

Section: (none)

Explanation

QUESTION 17

The ip helper-address command does what?

- A. assigns an IP address to a host
- B. resolves an IP address from a DNS server
- C. relays a DHCP request across networks
- D. resolves an IP address overlapping issue

Correct Answer: C
Section: (none)
Explanation

Mix Question II

QUESTION 1

Refer to the exhibit. The network administrator made the entries that are shown and then saved the configuration. From a console connection, what password or password sequence is required for the administrator to access privileged mode on Router1?

```
Router# configure terminal
Router(config)# hostname Router1
Router1(config)# enable secret sanfran
Router1(config)# enable password cisco
Router1(config)# line vty 0 4
Router1(config-line)# password sanjose
Router1(config-line)#
```

- A. cisco
- B. sanfran
- C. sanjose
- D. either cisco or sanfran
- E. either cisco or sanjose
- F. sanjose and sanfran

Correct Answer: B

Section: (none)

Explanation

QUESTION 2

An administrator has connected devices to a switch and, for security reasons, wants the dynamically learned MAC addresses from the address table added to the running configuration.

What must be done to accomplish this?

- A. Enable port security and use the keyword sticky.
- B. Set the switchport mode to trunk and save the running configuration.
- C. Use the switchport protected command to have the MAC addresses added to the configuration.
- D. Use the no switchport port-security command to allow MAC addresses to be added to the configuration.

Correct Answer: A

Section: (none)

Explanation**QUESTION 3**

A company has placed a networked PC in a lobby so guests can have access to the corporate directory. A security concern is that someone will disconnect the directory PC and re-connect their laptop computer and have access to the corporate network. For the port servicing the lobby, which three configuration steps should be performed on the switch to prevent this? (Choose three.)

- A. Enable port security.
- B. Create the port as a trunk port.
- C. Create the port as an access port.
- D. Create the port as a protected port.
- E. Set the port security aging time to 0.
- F. Statically assign the MAC address to the address table.
- G. Configure the switch to discover new MAC addresses after a set time of inactivity.

Correct Answer: ACF

Section: (none)

Explanation

QUESTION 4

Why would a network administrator configure port security on a switch?

- A. to prevent unauthorized Telnet access to a switch port
- B. to prevent unauthorized hosts from accessing the LAN
- C. to limit the number of Layer 2 broadcasts on a particular switch port
- D. block unauthorized access to the switch management interfaces

Correct Answer: B

Section: (none)

Explanation

QUESTION 5

Which IP addresses are valid for hosts belonging to the 10.1.160.0/20 subnet? (Choose three.)

- A. 10.1.168.0
- B. 10.1.176.1
- C. 10.1.174.255

- D. 10.1.160.255
- E. 10.1.160.0
- F. 10.1.175.255

Correct Answer: ACD

Section: (none)

Explanation

QUESTION 6

Given an IP address of 192.168.1.42 255.255.255.248, what is the subnet address?

- A. 192.168.1.8/29
- B. 192.168.1.32/27
- C. 192.168.1.40/29
- D. 192.168.1.16/28
- E. 192.168.1.48/29

Correct Answer: C

Section: (none)

Explanation

QUESTION 7

Which layer of the TCP/IP stack combines the OSI model physical and data link layers?

- A. Internet layer
- B. transport layer
- C. application layer
- D. network access layer

Correct Answer: D

Section: (none)

Explanation

QUESTION 8

What is the default administrative distance of the OSPF routing protocol?

- A. 90

- B. 100
- C. 110
- D. 120
- E. 130
- F. 170

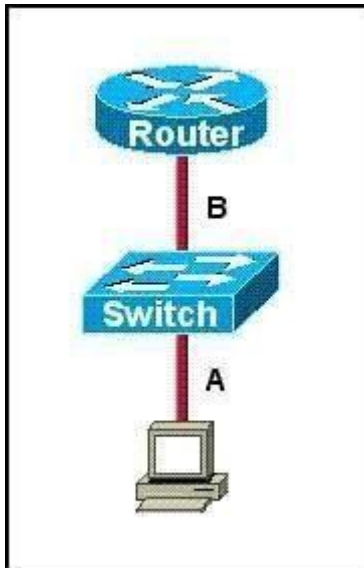
Correct Answer: C

Section: (none)

Explanation

QUESTION 9

Refer to the exhibit. The two connected ports on the switch are not turning orange or green. What would be the most effective steps to troubleshoot this physical layer problem? (Choose three.)



- A. Ensure that the Ethernet encapsulations match on the interconnected router and switch ports.
- B. Ensure that cables A and B are straight-through cables.
- C. Ensure cable A is plugged into a trunk port.
- D. Ensure the switch has power.
- E. Reboot all of the devices.

F. Reseat all cables.

Correct Answer: BDF

Section: (none)

Explanation

QUESTION 10

The network administrator is using a Windows PC application that is called putty.exe for remote communication to a switch for network troubleshooting. Which two protocols could be used during this communication? (Choose two).

- A. SNMP
- B. HTTP
- C. Telnet
- D. RMON
- E. SSH

Correct Answer: CE

Section: (none)

Explanation

QUESTION 11

Which option is a valid IPv6 address?

- A. 2001:0000:130F::099a::12a
- B. 2002:7654:A1AD:61:81AF:CCC1
- C. FEC0:ABCD:WXYZ:0067::2A4
- D. 2004:1:25A4:886F::1

Correct Answer: D

Section: (none)

Explanation

QUESTION 12

A receiving host has failed to receive all of the segments that it should acknowledge. What can the host do to improve the reliability of this communication session?

- A. decrease the window size

- B. use a different source port for the session
- C. decrease the sequence number
- D. obtain a new IP address from the DHCP server
- E. start a new session using UDP

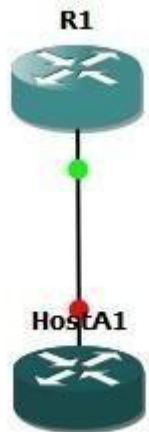
Correct Answer: A

Section: (none)

Explanation

QUESTION 13

Refer to the exhibit. A host is connected to switch port fa0/3. The host and switch have been fully configured for IP connectivity as shown. However, the indicator LED on switch port fa0/3 is not on, and the host cannot communicate with any other hosts including those connected to VLAN 2 on the same switch. Based on the given information, what is the problem?



- A. switch port fa0/3 is not configured as a trunk port
- B. there is a bad cable
- C. the switch has been assigned an incorrect subnet mask
- D. switch port fa0/3 has been blocked by STP
- E. the switch and the host must be in the same subnet

Correct Answer: B

Section: (none)

Explanation**QUESTION 14**

Which two statements describe characteristics of IPv6 unicast addressing? (Choose two.)

- A. Global addresses start with 2000::/3.
- B. Link-local addresses start with FE00:/12.
- C. Link-local addresses start with FF00::/10.
- D. There is only one loopback address and it is ::1.
- E. If a global address is assigned to an interface, then that is the only allowable address for the interface.

Correct Answer: AD

Section: (none)

Explanation**QUESTION 15**

A network administrator is trying to add a new router into an established OSPF network. The networks attached to the new router do not appear in the routing tables of the other OSPF routers. Given the information in the partial configuration shown below, what configuration error is causing this problem?

```
Router(config)# router ospf 1
Router(config-router)# network 10.0.0.0 255.0.0.0 area 0
```

- A. The process id is configured improperly.
- B. The OSPF area is configured improperly.
- C. The network wildcard mask is configured improperly.
- D. The network number is configured improperly.
- E. The AS is configured improperly.
- F. The network subnet mask is configured improperly.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

Which statement is true?

- A. An IPv6 address is 64 b long and is represented as hexadecimal characters.
- B. An IPv6 address is 32 b long and is represented as decimal digits.
- C. An IPv6 address is 128 b long and is represented as decimal digits.
- D. An IPv6 address is 128 b long and is represented as hexadecimal characters.

Correct Answer: D

Section: (none)

Explanation

Drag&Drop Questions

QUESTION 1

Drag and Drop Question

Select and Place:

Drag the appropriate command on the left to the configuration task it accomplishes. (Not all options are used.)

<code>login password cantCome1n</code>	<code>encrypt all clear text passwords</code>
<code>enable password uwi11NeverNo</code>	<code>protect access to the user mode prompt</code>
<code>service password-encryption</code>	<code>set privileged mode encrypted password</code>
<code>line console 0 password friendS0nly</code>	<code>set password to allow Telnet connections</code>
<code>enable secret noWay1n4u</code>	<code>set privileged mode clear text password</code>
<code>line vty 0 4 password 2hard2Guess</code>	

Correct Answer:

Drag the appropriate command on the left to the configuration task it accomplishes. (Not all options are used.)

login password cantCome1n

service password-encryption

line console 0
password friendS0nly

enable secret noWay1n4u

line vty 0 4
password 2hard2Guess

enable password uwi11NeverNo

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

Drag and Drop Question

Select and Place:

Move the protocol or service on the left to a situation on the right where it would be used. (Not all options are used.)

OSPF

ARP

NAT

DNS

SQL

DHCP

A PC with address 10.1.5.10 must access devices on the Internet.

Only routers and servers require static IP addresses. Easy IP administration is required.

A PC only knows a server as //Media Server . IP needs to send data to that server.

A protocol is needed to replace current static routes with automatic route updates.

Correct Answer:

Move the protocol or service on the left to a situation on the right where it would be used. (Not all options are used.)

ARP
SQL

NAT
DHCP
DNS
OSPF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

Drag and Drop Question

Select and Place:

On the left are various network protocols. On the right are the layers of the TCP/IP model. Assuming a reliable connection is required, move the protocols on the left to the TCP/IP layers on the right to show the proper encapsulation for an email message sent by a host on a LAN. (Not all options are used.)

UDP	application layer
SNMP	transport layer
IP	internet layer
ARP	network access layer
Ethernet	
TCP	
SMTP	

Correct Answer:

On the left are various network protocols. On the right are the layers of the TCP/IP model. Assuming a reliable connection is required, move the protocols on the left to the TCP/IP layers on the right to show the proper encapsulation for an email message sent by a host on a LAN. (Not all options are used.)

UDP	SMTP
SNMP	TCP
	IP
ARP	Ethernet

Section: (none)

Explanation

Explanation/Reference: