# Part 8

## **QUESTION** 645

3 addresses are shown in binary form below:

A. 01100100.00001010.11101011.00100111

B. 10101100.00010010.10011110.00001111

C. 11000000.10100111.10110010.01000101

Regarding these three binary addresses in the above exhibit; which statements below are correct? (Select three)

A.Address C is a public Class C address.

B.Address C is a private Class C address.

C.Address B is a public Class B address.

D.Address A is a public Class A address.

E.Address B is a private Class B address.

F.Address A is a private Class A address.

Answer: A, D, E

# Explanation:

A.Address C converts to 192.167.178.69 in decimal, which is a public class C address.

D.Address A converts to 100.10.235.39, which is a public class A IP address.

E.Address B converts to 172.18.158.15, which is a private (RFC 1918) IP address.

# **QUESTION** 646

What is the subnetwork address for a host with the IP address 201.100.5.68/28?

A.201.100.5.0

B.201.100.5.32

C.201.100.5.64

D.201.100.5.65

E.201.100.5.31

F.201.100.5.1

Answer: C

#### Explanation:

This is a C ip with a subnet mask of 255.255.255.240the host 201.100.5.68/28 belong to the second subnet which is

201.100.5.64this is determined by doing the following subnets?2^42=

14hosts?2^42=

14valid subnet

range?256240=

1616+16=32,16+32=48,16+48=64,64+16=80 and so as you can see the ip201.100.5.68 belongs to the second subnet which is.64

# **QUESTION** 647

Which command will configure a default route on a router?

A.router(config)# ip route 0.0.0.0 10.1.1.0 10.1.1.1

B.router(config)# ip defaultroute

10.1.1.0

C.router(config)# ip defaultgateway

10.1.1.0

D.router(config)# ip route 0.0.0.0 0.0.0.0 10.1.1.1

Answer: D

# Explanation:

Ip route 0.0.0.0 0.0.0.0 < ipaddress

of the interface> command is used to configure a default route.

So, Choice D is correct.

# **QUESTION** 648

In which situation would the use of a static route be appropriate?

A.To configure a route to the first Layer 3 device on the network segment.

B.To configure a route from an ISP router into a corporate network.

C.To configure a route when the administrative distance of the current routing protocol is too low.

D.To reach a network is more than 15 hops away.

E.To provide access to the Internet for enterprise hosts.

Answer: B

# Explanation:

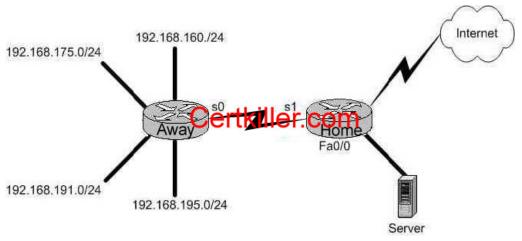
Static routes are special routes that the network administrator manually enters into the router configuration. Stub networks

are the ideal candidate for static routes.

There is no need to run a routing protocol over the WAN links between an ISP Router and a corporate network.

# **QUESTION** 649

The Certkiller Network is displayed in the flowing diagram:



You need to place an access list on the Fa0 interface of the Home router; that will deny access to all hosts

that lie within the range 192.168.160.0192.168.191.0.

Hosts in the 192.168.195.0 network should be granted

full access. Which one of the following answer choices fulfills your needs?

A.accesslist

1 deny 192.168.163.0 0.0.0.255

**B.**accesslist

1 deny 192.168.128.0 0.0.127.255

C.accesslist

1 deny 192.168.0.0 0.0.255.255

D.accesslist

1 deny 192.168.0.0 0.0.31.255

Answer: D

#### Explanation:

This question is really more of an inverse subnet masking questions than a security question. Your goal is to block access

to the host range 192.168.160.0

192.168.191.0 while allowing everything else (including hosts from 192.168.195.0)

full access. Answer choice D is correct because the address and mask are numbered correctly.

# **QUESTION** 650

Which of the following describe private IP addresses? (Choose two)

A.Addresses chosen by a company to communicate with the Internet.

B.Addresses that cannot be routed through the public Internet.

C.Addresses that can be routed through the public Internet.

D.A scheme to conserve public addresses.

E.Addresses licensed to enterprise or ISPs by an Internet registry organization.

Answer: B, D

# Explanation:

Private IP address space has been allocated via RFC 1918. This means the addresses are available for any use

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by anyone

and therefore the same private IP addresses can be reused. However they are defined as not routable on the public

Internet. They are used extensively in private networks due to the shortage of publicly registerable IP addresses and

therefore network address translation is required to connect those networks to the Internet.

# **QUESTION** 651

Study the following exhibit:



Taking the information from the above exhibit; which command line below would correctly configure serial

port0 on the Certkiller 2 router with the LAST usable host addresses on the 192.216.32.32 subnet?

A. Certkiller 2(configif)#

ip address 192.216.32.63 255.255.255.248

B. Certkiller 2(configif)#

ip address 192.216.32.38 255.255.255.240

C. Certkiller 2(configif)#

ip address 192.216.32.39 255.255.255.248

D. Certkiller 2(configif)#

ip address 192.216.32.63 255.255.255.248 no shut

E. Certkiller 2(configif)#

ip address 192.216.32.39 255.255.255.248 no shut

F. Certkiller 2(configif)#

ip address 192.216.32.38 255.255.255.248

Answer: F

#### Explanation:

F is the correct answer, as the last usable IP address on this subnet is 192.216.32.38. The subnet mask for a /29 is 255.255.255.248

Mask/2911111111.11111111111111111111111000255.255.255.248

Subnet11000000.11011000.00100000.00100000192.216.32.32

Broadcast11000000.11011000.00100000.00100111192.216.32.39

Address range =192.216.32.33

192.216.32.38

## **OUESTION** 652

### **DRAG DROP**

As a Certkiller .com network administrator you are required to construct the command sequence to configure an IP address on an Ethernet interface. (Not all options will be used.)



#### Answer:

As a Certkiller.com network administrator you are required to construct the command sequence to configure an IP address on an Ethernet interface. (Not all options will be used)



## **QUESTION** 653

When a new trunk link is configured on an IOS based switch, which VLANs are allowed over the link?

A.All defined VLANs are allowed on the trunk by default.

B.Each VLAN, or VLAN range, that is specified with theswitchport modecommand.

C.Each VLAN, or VLAN range, that is specified with thevtp domaincommand.

D.Each VLAN, or VLAN range, that is specified with thevlan databasecommand.

Answer: A

# Explanation:

By default a trunk link carries all the VLANs that exist on the switch. This is because all VLANs are active on a trunk

can elect to selectively remove and add VLANs from a trunk link.

# **OUESTION** 654

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

A.To prevent unauthorized Telnet access to a switch port.

B.To limit the number of Layer 2 broadcasts on a particular switch port.

C.To prevent unauthorized hosts from accessing the LAN.

D.To protect the IP and MAC address of the switch and associated ports.

E.To block unauthorized access to the switch management interfaces over common TCP ports.

Answer: C

## **QUESTION** 655

Assuming

only one VLAN in the exhibit, which switch is acting as the root bridge?

A. Certkiller 1

B. Certkiller 2

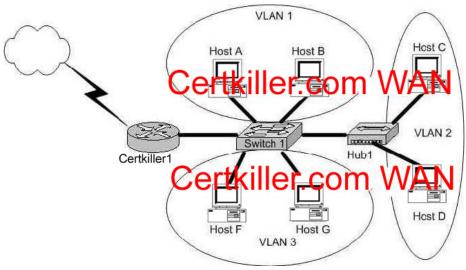
C. Certkiller 3

D.A root bridge is not required in this network.

Answer: C

#### **OUESTION** 656

The Certkiller Network consists of a router, switch, and hub as shown below:



In accordance with the above diagram; which of the statements below correctly describe the switch port configuration and the router port configurations? (Select three answer choices)

A.The Certkiller 1 WAN port is configured as a trunking port.

B.The Certkiller 1 port connected to Switch1 is configured using subinterfaces.

C.The Certkiller 1 port connected to Switch1 is configured as 10 Mbps.

D.The Switch1 port connected to Certkiller 1 is configured as a trunking port.

E.The Switch1 port connected to Host B is configured as an access port.

F.The switch1 port connected to Hub1 is configured as full duplex.

Answer: B, D, E

## Explanation:

B is correct because the diagram and the function match the description of a subinterface. Subinterfaces are needed

because for intervlan

communication, routing needs to take place.D is correct because all 3 VLAN's are trunked to reach the router.E is correct because access ports are correct in this case.

Incorrect Answers:

A. This is incorrect because trunks only work between switches, and not between a router and a WAN.

C, F.Although these may be true, we are not given enough information in this diagram to confirm it.

#### **QUESTION** 657

As a Certkiller .com instructor you are required to place the following items to the correctorderthey are used when Cisco IOS based hardware is booted.



#### Answer:

As a Certkiller .com instructor you are required to the following items to the correct order they are used when Cisco IOS based hardware is booted.



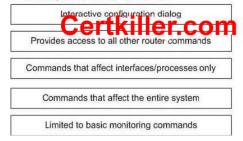
# **QUESTION** 658

# **DRAG DROP**

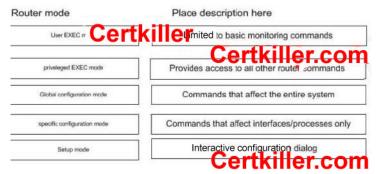
Your Certkiller .com boss asks you tot match the descriptions to the corresponding router modes.



Descriptions, select from these



Your Certkiller.com boss asks you to match the descriptions to the corresponding router modes.



# **QUESTION** 659

Your goal is to illustrate the five necessary steps of configuring dialondemand routing (DDR) on an ISDN

BRI. Place the parameters on the right to the proper slot on the left. (Note: not all the parameters will be used)



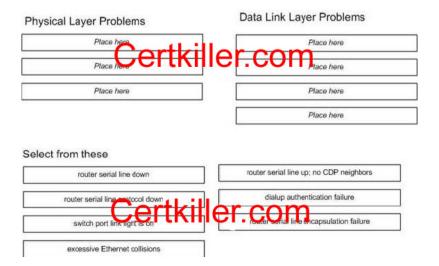
# Answer:



# **QUESTION** 660

# **DRAG DROP**

As a Certkiller .com network technician you are required to drag the network problems to the correct OSI layers.



#### Answer:

As a Certkiller.com network technician you are required to drag the network problems to the correct OSI layers.



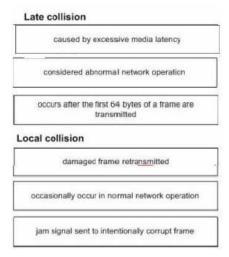
# **QUESTION** 661

## **DRAG DROP**

As a network technician at Certkiller .com you are required to match the characteristics to the correct category of Ethernet collisions on the right. Not all characteristics are used.

Characteristics, select from these





# **QUESTION** 662

## Exhibit:



#### Refer

to the exhibit. When PC1 sends an ARP requests for the MAC address of PC1, network performance slows dramatically, and the switches detect an unusually high number of broadcast frames. What is the most likely cause of this?

A. Theportfastfeature is not enabled on all switch ports.

B.The PCs are in two different VLANS.

C.Spanning Tree Protocol is not running on the switches.

D.PC2 is down and is not able to respond to the request.

E.The VTP version running on the two switches do not match.

Answer: C

# Explanation:

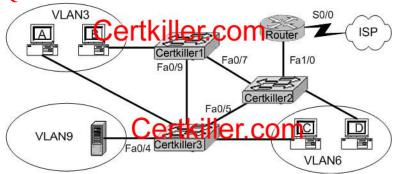
As the switches CK1 and CK2 are connected with each other via two links, spanning tree must be enabled on both

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switches to avoid switching loops and broadcast storms. An ARP request is a broadcast message. If Spanning tree is not

running, broadcast loops will form reducing the performance of the network.

# **QUESTION** 663



A technician is investigating a problem with the exhibited network. These symptoms have been observed:

- 1.All of the user hosts can access the Internet.
- 2. None of the user hosts can access the server in VLAN9
- 3.All of the hosts can ping each other.

What could cause the symptoms?

A.Interface S0/0 on the router is down.

B.Interface Fa1/1 on the router is down.

C.Interface Fa0/5 on Certkiller 3 is down.

D.Interface Fa0/4 on Certkiller 3 is down.

E. Certkiller 2 is turned off.

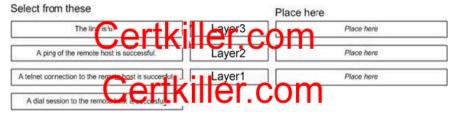
F.Trunking is not enabled on the link between Certkiller 1 and Certkiller 3.

Answer: D

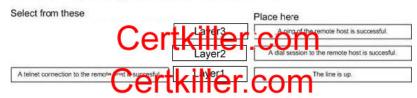
## **OUESTION** 664

#### DRAG DROP

A Certkiller .com network technician is testing an ISDN circuit that uses PPP between two IP hosts. Match the success indicator with the layer of OSI functionality on the right that the success indicator verifies.



ACertkiller.comnetwork technician is testing an ISDN circuit that uses PPP between two IP hosts. Match the success indicator with the layer of OSI functionality on the right that the success indicator verifies.



# **QUESTION** 665

# **DRAG DROP**

Your boss at Certkiller .com asks you to match the terms with the appropriate OSI layer. Not all options are used.



## **QUESTION** 666

If the bandwidth of an OSPF interface is 64, what would be the calculated cost of the link?

A. 1

B. 10

C. 1562

D. 64000

E. 128000

F.None of the above

Answer: C

# Explanation:

The question states that OSPF interface has been configured with the bandwidth 64command.Cisco IOS always interprets the values for the bandwidth command as being in kbps, so the bandwidth is configured as 64 kbps.The

metric for any OSPF defaults to 100,000,000/bandwidth.So, in this example:

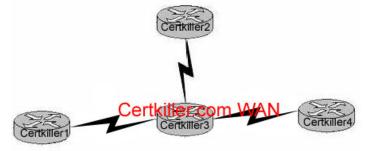
100,000,000 / 64000 = 1562.5

496 Reference:

Sybex CCNA Study Guide edition 4, page 284.

# **QUESTION** 667

The following exhibit shows the router topology for the Certkiller network.



On the assumption that every router is running RIP; which of the statements below correctly describe the

way the routers exchange their routing tables? (Select al valid answer choices)

- A. Certkiller 4 exchanges directly with Certkiller 3.
- B. Certkiller 4 exchanges directly with Certkiller 2.
- C. Certkiller 4 exchanges directly with Certkiller 1.
- D. Certkiller 1 exchanges directly with Certkiller 3.
- E. Certkiller 1 exchanges directly with Certkiller 2.
- F. Certkiller 1 exchanges directly with Certkiller 4.

Answer: A, D

# Explanation:

RIP exchanges routing tables with their adjacent neighbors. Therefore, Certkiller 3 will exchange routes with Certkiller 1,

RIP, unlike OSPF, only exchange information with

their directly connected neighbors. With link state protocols such as OSPF and ISIS,

information is flooded to all

routers within the network system.

# **QUESTION** 668

How does route poisoning work with holddown timers to prevent routing loops?

A.Information learned from one source is not distributed back to that source.

B.Routing updates from the poisoned source are ignored until a holddown timer expires.

C.Failed routers are advertised with infinite metrics.

D.New routing updates are ignored until the network has converged.

E.A route is marked as unavailable when its timetolive

is exceeded.

Answer: C

# **QUESTION** 669

Which of the following protocols utilize TCP? (Choose all that apply)

A.NTP

**B.NNTP** 

C.SMTP

D.SNMP

**E.HTTPS** 

F.TFTP

Answer: B, C, E

Explanation:

B.NNTP uses TCP port 119

C.SMTP uses TCP port 25

E.HTTPSuses TCP port 443

**Incorrect Answers:** 

A.NTP uses UDP port 123

D.SNMP uses UDP port 161

F.TFTP uses UDP port 69

## **QUESTION** 670

What does the term computer language refer to?

A.Binary

**B.Decimal** 

C.Hexadecimal

D.Octal

Answer: A

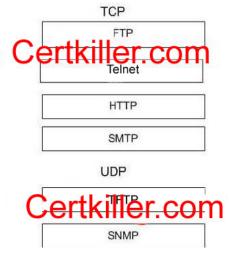
## Explanation:

Computers speak in binary code; meaning that every piece of aspects within a computer is a series of 1s and 0s.

# **QUESTION** 671

Your Certkiller .com boss asks you tot match the networks services with the corresponding Layer 4 protocols.





# Explanation:

FTP uses TCP Port Numbers 20 and 21. Port 20 is used for Data. Port 21 is used for Control.

Telnet used TCP Port Number 23.

HTTP uses TCP Port Number 80.

SMTP uses TCP Port Number 25.

SNMP uses UDP Port Number 161.

TFTP uses UDP Port Number 69.

# **QUESTION** 672

Which of the following protocols use both TCP and UDP ports?

A.FTP

**B.SMTP** 

C.Telnet

D.DNS

Answer: D

Explanation:

FTP:TCPPort20 or 21 SMTP:TCPPort110 Telnet:TCPPort23

DNS: both TCP and UDPPort 25

# **QUESTION** 673

How many simultaneous Telnet sessions does a Cisco router support by default?

A.1

B.2

C.3

D.4

E.5

F.6

Answer: E

# Explanation:

Several concurrent Telnet connections to a router are allowed. The line vty 0.4 command signifies that this configuration applies to vtys (virtual teletypes—terminals) 0 through 4. Only these five vtys are allowed by the IOS unless it is an IOS for a dial access server, such as a Cisco AS5300. All five vtys typically have the same password, which is handy because users connecting to the router via a Telnet cannot choose which vty they get.

# **QUESTION** 674

Error detection schemes check errors in the data packets by reading which field frame IDs?

A.MTU

A.PDU

B.FCS

C.Flag

D.MAC

E.BRI

Answer: C

# Explanation:

Frame Check Sequence (FCS) field

Ethernet uses aCyclicRedundancyCheck(CRC) algorithm to detect transmission errors.

TheFrameCheckSequence

field

is filled (using a CRC) by the sending host. If the receiving host detects a wrong CRC, it will throw away that packet.

Incorrect Answers:

A.MTU is the Maximum Transmission Unit, which is set to 1500 bytes by default for ethernet packets.

B, D. This is not part of the data packet.

E.This is the Media Access Control, which is used most often to describe the layer 2 physical address of a device

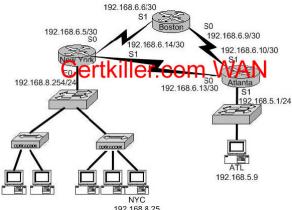
F.BRI is related to an ISDN connection, describing a circuit with 2 bearer channels and a single data channel.It

has

absolutely nothing to do with error correction in a data packet.

# **QUESTION** 675

Exhibit:



The internetwork shown in the graphic is using the EIGRP routing protocol. What will be the destination address of a packet destined for host NYC as it leaves the ATLANTA router?

A.192.168.6.5

B.192.168.6.6

C.192.168.6.9

D.192.168.6.14

E.192.168.8.25

F.192.168.8.25

Answer: E

#### Explanation:

In case of Routing Source and Destination IP Addresses never change so, a packet destined to NYC will always have

192.168.8.25 as a destination IP Address.

# **QUESTION** 676

RegardingFrameRelayMultipoint subinterfaces; which statement is true?

A.An IP address is required on the physical interface

B.All routers are required to be fully meshed

C.All routers must be in the same subnet to forward routing updates and broadcasts

D.Multipoint is the default configuration for Frame Relay subinterfaces

Answer: C

## Explanation:

Unlike Frame Relay pointtopoint

connections, multipointFrameRelay router interfaces must all be in the same subnet.

**Incorrect Answers:** 

A.The IP address is required on the logical subinterface, not the physical interface.

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B.It is never an absolute requirement for a frame relay network to be fully meshed. The vast majority of frame relay

networks are configured in a hub and spoke fashion, to avoid all of the charges associated with the numerous PVC's

needed to be fully meshed.

D.Point to point is the default frame relay subinterface type.

# **QUESTION** 677

The Certkiller Frame Relay network is displayed below:



## In regard to router TestKing1: what is the function of the Frame Relay DLCI?

A.Defines the signaling standard between Certkiller 1 and Certkiller 2.

B.Classifies the encapsulation used between Certkiller 1 and Certkiller 2.

C.Identifies the circuit between Certkiller 2 and the frame switch.

D.Classifies the circuit between Certkiller 1 and Certkiller 2.

E.Defines the signaling standard between Certkiller 1 and the frame switch.

Answer: C

# Explanation:

Certkiller 1 sends frames with DLCI, and they reach the local switch. The local switch sees the DLCI field and forwards

the frame through the Frame Relay network until it reaches the switch connected to Certkiller 2. The Certkiller 2's local

switch forwards the frame out of the access link to Certkiller 2.DLCI information is considered to be locally significant,

meaning that the DLCI is used between the end router and the carrier's local frame relay switch.

Reference: CCNA Self Study

CCNA ICND exam certification Guide (Cisco Press, ISBN 158720083X)

Page 386

Incorrect Answers: A, E.

DLCI is used only as a circuit identifier (DLCI=Data Link Circuit Identifier), and not used for signaling.

B. The encapsulation options are not defined with DLCIs.

D. The DLCI information is considered to be locally significant, meaning that the DLCI is used between the end router

and the carrier's local frame relay switch. The DLCI is not used end to end (router to router).

# **QUESTION** 678

WAN data link encapsulation types include which of the following? Choose two

A.T1

**B.Frame Relay** 

C.DSL

D.PPP

E.ISDN

Answer: B, D

Explanation: Frame relay and PPP is used with WAN encapsulation.

Frame Relay most closely compares to the OSI data link layer (Layer 2). If you remember that the word "frame" describes the data link layer protocol data unit (PDU), it will be easy to remember that Frame Relay relates to OSI

Layer 2. Like other data link protocols, Frame Relay can be used to deliver packets (Layer 3 PDUs) between routers.