QUESTION 1

When you are logged into a switch, which prompt indicates that you are in privileged mode? (1.2.2-1)

A. %

B. @

C. >

D. $

E. #

Answer: E

Explanation/Reference:

特權模式就是#提示符

QUESTION 2

Which command shows system hardware and software version information? (1.1.4-2)

A. show configuration

B. show environment

C. show inventory

D. show platform

E. show version

Answer: E

Explanation/Reference:

查看系統的軟體和硬體資訊使用的命令是show version

QUESTION 3

Cisco Catalyst switches CAT1 and CAT2 have a connection between them using ports FA0/13. An 802. 1Q trunk is configured between the two switches. On CAT1, VLAN 10 is chosen as native,but on CAT2 the native VLAN is not specified.What will happen in this scenario? (3.4.1-2)

A. 802.1Q giants frames could saturate the link.

B. VLAN 10 on CAT1 and VLAN 1 on CAT2 will send untagged frames.

C. A native VLAN mismatch error message will appear.

D. VLAN 10 on CAT1 and VLAN 1 on CAT2 will send tagged frames.

Answer: C

Explanation/Reference:

如果兩邊native不匹配的話.switch將報native不匹配的日誌資訊

QUESTION 4

Which command would correctly configure a serial port on a router with the last usable host address in the 192.216.32.32/29 subnet? (6.5.1-1)

A. Router(config-if)# ip address 192.216.32.38 255.255.255.240

B. Router(config-if)# ip address 192.216.32.39 255.255.255.224

C. Router(config-if)# ip address 192.216.32.63 255.255.255.248

D. Router(config-if)# ip address 192.216.32.39 255.255.255.248

E. Router(config-if)# ip address 192.216.32.63 255.255.255.248

F. Router(config-if)# ip address 192.216.32.38 255.255.255.248

Answer: F

Explanation/Reference:

192.216.32.32/29它的塊大小為8遮罩為255.255.255.248位址範圍192.216.32.32-40

QUESTION 5

The network default gateway applying to a host by DHCP is 192.168.5.33/28. Which option is the valid IP address of this host? (6.5.1-2)

A. 192.168.5.55

B. 192.168.5.47

C. 192.168.5.40

D. 192.168.5.32

E. 192.168.5.14

Answer: C

Explanation/Reference:

考點：考查VLSM

192.168.5.33/28所在網段的範圍是192.168.5.32--192.168.5.47/28

A：超出範圍

B：廣播地址

C：正確

D：網路號

E：超出範圍

QUESTION 6

Which two addresses can be assigned to a host with a subnet mask of 255.255.254.0? (Choose two.) (6.5.1-2)

A. 113.10.4.0

B. 186.54.3.0

C. 175.33.3.255

D. 26.35.2.255

E. 17.35.36.0

Answer: BD

Explanation/Reference:

考點：考查VLSM

A：網路號

B/D：正確

C：廣播地址

E：網路號

QUESTION 7

The network administrator has asked you to check the status of the workstation's IP stack by pinging the loopback address. Which address would you ping to perform this task? (6.6.1)

A. 10.1.1.1

B. 127.0.0.1

C. 192.168.0.1

D. 239.1.1.1

Answer: B

Explanation/Reference:

考點：使用ping來檢測主機的IP棧。

ping 127.0.0.1實現。

QUESTION 8

Workstation A has been assigned an IP address of 192.0.2.24/28. Workstation B has been assigned an IP address of 192.0.2.100/28. The two workstations are connected with a straight-through cable. Attempts to ping between the hosts are unsuccessful. What two things can be done to allow communications between the hosts? (Choose two.) (8.3.3-2) (6.5.1-2)

A. Replace the straight-through cable with a crossover cable.

B. Change the subnet mask of the hosts to /25.

C. Change the subnet mask of the hosts to /26.

D. Change the address of Workstation A to 192.0.2.15.

E. Change the address of Workstation B to 192.0.2.111.

Answer: AB

Explanation/Reference:

考點：同構設備使用交叉線，兩端的IP需要在同一個子網。

A：使用交叉線替換現有的直通線。正確。

B：修改遮罩為25位，正確。

C：修改遮罩為26為，錯誤。不能使他們在同一個子網。

D/E：錯誤，都不能使他們在同一個子網。

QUESTION 9

Your ISP has given you the address 223.5.14.6/29 to assign to your router's interface. They have also given you the default gateway address of 223.5.14.7. After you have configured the address, the router is unable to ping any remote devices. What is preventing the router from pinging remote devices? (6.2.4) (6.5.1-2)

A. The default gateway is not an address on this subnet.

B. The default gateway is the broadcast address for this subnet.

C. The IP address is the broadcast address for this subnet.

D. The IP address is an invalid class D multicast address.

Answer: B

Explanation/Reference:

考點：考查VLSM。

223.5.14.6/29所在網段的範圍是：223.5.14.0--223.5.14.7/29

A：默認閘道不屬於這個子網，錯誤

B：默認閘道是這個子網的廣播位址，正確

C：這個位址是子網的廣播位址，錯誤

D：這個位址是組播位址，錯誤。

QUESTION 10

Which command is used to copy the configuration from RAM into NVRAM? (11.1.2)(1.1.2-2)

A. copy running-config startup-config

B. copy startup-config: running-config:

C. copy running config startup config

D. copy startup config running config

E. write terminal

Answer: A

Explanation/Reference:

QUESTION 11

Which command is used to load a configuration from a TFTP server and merge the configuration into RAM? (11.2.3-2)

A. copy running-config: TFTP:

B. copy TFTP: running-config

C. copy TFTP: startup-config

D. copy startup-config: TFTP:

Answer: B

Explanation/Reference:

QUESTION 12

A system administrator types the command to change the hostname of a router. Where on the Cisco IFS is that change stored? (11.1.2)

A. NVRAM

B. RAM

C. FLASH

D. ROM

E. PCMCIA

Answer: B

Explanation/Reference:

running-config保存在RAM中

startup-config保存在NVRAM中

QUESTION 13

Which command is used to configure a default route? (2,6,2-1)

A. ip route 172.16.1.0 255.255.255.0 0.0.0.0

B. ip route 172.16.1.0 255.255.255.0 172.16.2.1

C. ip route 0.0.0.0 255.255.255.0 172.16.2.1

D. ip route 0.0.0.0 0.0.0.0 172.16.2.1

Answer: D

Explanation/Reference:

QUESTION 14

If IP routing is enabled, which two commands set the gateway of last resort to the default gateway? (2,6,2-1) (9.5.4-1)

(Choose two.)

A. ip default-gateway 0.0.0.0

B. ip route 172.16.2.1 0.0.0.0 0.0.0.0

C. ip default-network 0.0.0.0

D. ip default-route 0.0.0.0 0.0.0.0 172.16.2.1

E. ip route 0.0.0.0 0.0.0.0 172.16.2.1

Answer: CE

Explanation/Reference:

產生默認閘道的兩種方式

ip default-network

ip route

QUESTION 15

Which command would you configure globally on a Cisco router that would allow you to view directly connected Cisco devices? (2.3.4-1)

A. enable cdp

B. cdp enable

C. cdp run

D. run cdp

Answer: C

Explanation/Reference:

QUESTION 16

Which command is used to see the path taken by packets across an IP network? (6.6.4-1)

A. show ip route

B. show route

C. traceroute

D. trace ip route

Answer: C

Explanation/Reference:

哪條命令用於查看資料包轉發所經過的路徑

A:查看路由表

B：沒有這條命令

C：正確

D：沒這條命令

QUESTION 17

Which command is used to debug a ping command? (6.6.5-1)

A. debug icmp

B. debug ip icmp

C. debug tcp

D. debug packet

Answer: B

Explanation/Reference:

ping調用了icmp協定，而icmp資料包封裝在ip包中。

QUESTION 18

Which command displays CPU utilization? (11.1.6-1)

A. show protocols

B. show process

C. show system

D. show version

Answer: B

Explanation/Reference:

查看CPU利用率。

QUESTION 19

When configuring a serial interface on a router, what is the default encapsulation? (2.1.5-1)

A. atm-dxi

B. frame-relay

C. hdlc

D. lapb

E. ppp

Answer: C

Explanation/Reference:

缺省封裝是HDLC

QUESTION 20

What must be set correctly when configuring a serial interface so that higher-level protocols calculate the best route? (9.3.2-1)

A. bandwidth

B. delay

C. load

D. reliability

Answer: A

Explanation/Reference:

為了使高層路由協議計算最佳路由，串口的什麼東西必須被設置正確？在介面下，只有帶寬是可以配置的。

QUESTION 21

A company implements video conferencing over IP on their Ethernet LAN. The users notice that the network slows down, and the video either stutters or fails completely. What is the most likely reason for this? (1.0.1-1)

A. minimum cell rate (MCR)

B. quality of service (QoS)

C. modulation

D. packet switching exchange (PSE)

E. reliable transport protocol (RTP)

QUESTION 22

Which layer in the OSI reference model is responsible for determining the availability of the receiving program and checking to see if enough resources exist for that communication? (3.1.2.1)

A. transport

B. network

C. presentation

D. session

E. application

Answer: E

Explanation/Reference:

哪一層確定的接收程式的可用性？

應用層提供

QUESTION 23

Data transfer is slow between the source and destination. The quality of service requested by the transport layer in the OSI reference model is not being maintained. To fix this issue, at which layer should the troubleshooting process begin? (8.4.4-1)

A. presentation

B. session

C. transport

D. network

E. physical

Answer: D

Explanation/Reference:

解決網路問題，先確保網路層通信。

QUESTION 24

Which protocols are found in the network layer of the OSI reference model and are responsible for path determination and traffic switching? (5.3.3-3)

A. LAN

B. routing

C. WAN

D. network

Answer: B

Explanation/Reference:

OSI網路層中什麼提供了路徑選擇和流量轉發？

由路由協定提供。通過手工或者動態學習路由條目實現。

QUESTION 25

Which command reveals the last method used to powercycle a router? (11.1.6-2)

A. show reload

B. show boot

C. show running-config

D. show version

Answer: D

Explanation/Reference:

哪一個命令可以顯示最近一次被用來重啟路由器的方法？

QUESTION 26

Which three options are valid WAN connectivity methods? (Choose three.)

(1.2.3-1)

A. PPP

B. WAP

C. HDLC

D. MPLS

E. L2TPv3

F. ATM

Answer: ACF

Explanation/Reference:

哪三種封裝屬於WAN鏈路的?

A:點到點協議，正確

B：無線加密技術，錯誤

C:思科缺省封裝格式，正確。

D：多協定標籤轉換，錯誤

E：隧道協定，錯誤

F：正確。

QUESTION 27

Refer to the exhibit. Which WAN protocol is being used? (3.4.2-1)



A. ATM

B. HDLC

C. Frame Relay

D. PPP

Answer: C

Explanation/Reference:

由圖中可看到發送接受LMI資訊。屬於FR的資料包。

QUESTION 28

What is the difference between a CSU/DSU and a modem? (1.2.2-2)

A. A CSU/DSU converts analog signals from a router to a leased line; a modem converts analog signals from a router to a leased line.

B. A CSU/DSU converts analog signals from a router to a phone line; a modem converts digital signals from a router to a leased line.

C. A CSU/DSU converts digital signals from a router to a phone line; a modem converts analog signals from a router to a phone line.

D. A CSU/DSU converts digital signals from a router to a leased line; a modem converts digital signals from a router to a phone line.

Answer: D

Explanation/Reference:

CSU/DSU一般是專線，MODEN是將類比信號與數位信號轉換

QUESTION 29

A network administrator must configure 200 switch ports to accept traffic from only the currently attached host devices. What would be the most efficient way to configure MAC-level security on all these ports? (2.4.6-1)

A. Visually verify the MAC addresses and then telnet to the switches to enter the switchport-port security mac-address command.

B. Have end users e-mail their MAC addresses. Telnet to the switch to enter the switchport-port security mac-address command.

C. Use the switchport port-security MAC address sticky command on all the switch ports that have end devices connected to them.

D. Use show mac-address-table to determine the addresses that are associated with each port and then enter the commands on each switch for MAC address port-security.

Answer: C

Explanation/Reference:

考點：有200台主機需要接入，採用什麼方式來增強網路安全性？

A：先驗證mac安全性，然後在交換機上綁定。錯誤，工作量太大

B：用戶發送郵件認證再在交換機上配置，錯誤，不科學。

C：使用port-security，正確。

D：錯誤，工作量太大。

QUESTION 30

When troubleshooting a Frame Relay connection, what is the first step when performing a loopback test? (8.4.3-4)

A. Set the encapsulation of the interface to HDLC.

B. Place the CSU/DSU in local-loop mode.

C. Enable local-loop mode on the DCE Frame Relay router.

D. Verify that the encapsulation is set to Frame Relay.

Answer: A

Explanation/Reference:

在對FR進行排錯的時候，當做回環測試的時候，第一步如何處理？

A：講介面配置成HDLC，正確，FR封裝下無法正常ping自己埠