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QUESTION 1

Which protocol advertises a virtual IP address to facilitate transparent failover of a Cisco routing device?

A. FHRP

B. DHCP

C. RSMLT

D. ESRP

Correct Answer: A

QUESTION 2

Refer to exhibit.

```
Router#show running-config
Building configuration...

Current configuration : 659 bytes
!
version 12.4
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname Router
!

enable secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0
!

interface FastEthernet0/0
 ip address 192.168.1.1 255.255.255.0
 ip access-group 101 in
 duplex auto
 speed auto
!
access-list 101 deny tcp any any eq 22
access-list 101 permit ip any any
!
line con 0
 password 7 0822455D0A16
 login
line vty 0 4
 login
line vty 5 14
 login
!
end
```

A network administrator cannot establish a Telnet session with the indicated router. What is the cause of this failure?

A. A Level 5 password is not set.

B. An ACL is blocking Telnet access.

C. The vty password is missing.

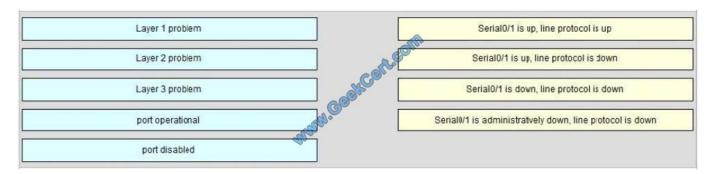D. The console password is missing.

Correct Answer: C

The login keyword has been set, but not password. This will result in the "password required, but none set" message to users trying to telnet to this router.
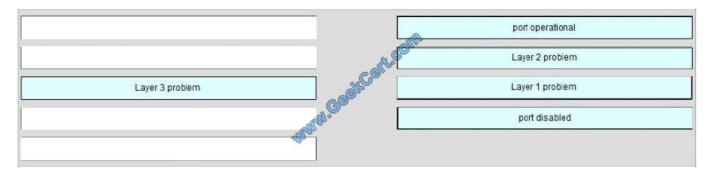

QUESTION 3

DRAG DROP

Drag each category on the left to its corresponding router output line on the right. Each router output line is the result of a show ip interface command. Not all categories are used.

Select and Place:

Layer 1 problem		Serial0/1 is up, line protocol is up
Layer 2 problem		Serial0/1 is up, line protocol is down
Layer 3 problem		Serial0/1 is down, line protocol is down
port operational		Serial0/1 is administratively down, line protocol is down
port disabled		

Correct Answer:

		port operational
		Layer 2 problem
Layer 3 problem		Layer 1 problem
		port disabled

A simple way to find out which layer is having problem is to remember this rule: "the first statement is for Layer 1, the last statement is for Layer 2 and if Layer 1 is down then surely Layer 2 will be down too", so you have to check Layer 1

before checking Layer 2. For example, from the output "Serial0/1 is up, line protocol is down" we know that it is a layer 2 problem because the first statement (Serial0/1 is up) is good while the last statement (line protocol is down) is bad. For

the statement "Serial0/1 is down, line protocol is down", both layers are down so the problem belongs to Layer 1.

There is only one special case with the statement "…. is administrator down, line protocol is down". In this case, we know that the port is currently disabled and shut down by the administrators.

QUESTION 4

Refer to the exhibit.


```
R1# show frame-relay map
Serial0/0 (up): ip 172.16.3.1 dlci 100 (0x64, 0x1840), dynamic
            broadcast,, status defined, active
```

What is the meaning of the term dynamic as displayed in the output of the show frame-relay map command shown?

A. The Serial0/0 interface is passing traffic.

B. The DLCI 100 was dynamically allocated by the router.

C. The Serial0/0 interface acquired the IP address of 172.16.3.1 from a DHCP server.

D. The DLCI 100 will be dynamically changed as required to adapt to changes in the Frame Relay cloud.

E. The mapping between DLCI 100 and the end station IP address 172.16.3.1 was learned through Inverse ARP.

Correct Answer: E

Inverse Address Resolution Protocol (Inverse ARP) was developed to provide a mechanism for dynamic DLCI to Layer 3 address maps. Inverse ARP works much the same way Address Resolution Protocol (ARP) works on a LAN. However, with ARP, the device knows the Layer 3 IP address and needs to know the remote data link MAC address. With Inverse ARP, the router knows the Layer 2 address which is the DLCI, but needs to know the remote Layer 3 IP address. When using dynamic address mapping, Inverse ARP requests a next-hop protocol address for each active PVC. Once the requesting router receives an Inverse ARP response, it updates its DLCI-to-Layer 3 address mapping table. Dynamic address mapping is enabled by default for all protocols enabled on a physical interface. If the Frame Relay environment supports LMI autosensing and Inverse ARP, dynamic address mapping takes place automatically. Therefore, no static address mapping is required.

QUESTION 5

What are the three things that the Netflow uses to consider the traffic to be in a same flow? (Choose three)

A. IP address

B. Interface name

C. Port numbers

D. L3 protocol type

E. MAC address

Correct Answer: ACD

What is an IP Flow?

Each packet that is forwarded within a router or switch is examined for a set of IP packet attributes. These attributes are the IP packet identity or fingerprint of the packet and determine if the packet is unique or similar to other packets.

Traditionally, an IP Flow is based on a set of 5 and up to 7 IP packet attributes.

IP Packet attributes used by NetFlow:

+

 IP source address

+

 IP destination address

+

 Source port

+

 Destination port

+

 Layer 3 protocol type

+

 Class of Service

+

 Router or switch interface

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