

Cisco

Exam 300-135

Troubleshooting and Maintaining Cisco IP Networks (TSHOOT)

Version: 6.0

[Total Questions: 79]



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Topic 1, Mix Questions

Question No : 1 - (Topic 1)

The following commands are issued on a Cisco Router:

Router(configuration)#access-list 199 permit tcp host 10.1.1.1 host 172.16.1.1

Router(configuration)#access-list 199 permit tcp host 172.16.1.1 host 10.1.1.1

Router(configuration)#exit

Router#debug ip packet 199

What will the debug output on the console show?

- **A.** All IP packets passing through the router
- **B.** Only IP packets with the source address of 10.1.1.1
- **C.** All IP packets from 10.1.1.1 to 172.16.1.1
- **D.** All IP Packets between 10.1.1.1 and 172.16.1.1

Answer: D

Question No : 2 - (Topic 1)

Refer to the shown below.

%LINK-3-UPDOWN: Interface Serial0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0, changed state to up

What statement is correct regarding the output shown in the graphic?

- **A.** These two log messages will not have a severity level. They are not errors but are just informational messages.
- **B.** The first log message is categorized as a warning message.
- **C.** These messages regarding interface status are normal output and will always be displayed when you exit config mode.
- **D.** The first log message is an error message with a severity level of 3.



E. The second message would be shown if the logging console warning command had been issued.

Answer: D

Question No : 3 - (Topic 1)

At which layer of the OSI model does the Spanning Tree Protocol (STP) operate at?

- A. Layer 5
- B. Layer 4
- C. Layer 3
- D. Layer 2
- E. Layer 1

Answer: D

Question No: 4 - (Topic 1)

FCAPS is a network maintenance model defined by ISO. It stands for which of the following?

- A. Fault Management
- **B.** Action Management
- C. Configuration Management
- **D.** Protocol Management
- E. Security Management

Answer: A,C,E

Question No : 5 - (Topic 1)

Which statement is true about an IPsec/GRE tunnel?

- **A.** The GRE tunnel source and destination addresses are specified within the IPsec transform set.
- **B.** An IPsec/GRE tunnel must use IPsec tunnel mode.



- **C.** GRE encapsulation occurs before the IPsec encryption process.
- **D.** Crypto map ACL is not needed to match which traffic will be protected.

Answer: C

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Question No: 6 - (Topic 1)
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Refer to the exhibit.

```
R1#show ip route
Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2
i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
ia - IS-IS inter area, * - candidate default, U - per-user static route
O - ODR, P - periodic downloaded static route

Gateway of last resort is 212.50.185.126 to network 0.0.0.0

D 212.50.167.0/24 [90/160000] via 212.50.185.82, 00:05:55, Ethernet1/0
212.50.166.0/24 is variably subnetted, 4 subnets, 2 masks
D 212.50.166.0/24 is a summary, 00:05:55, Nullo
C 212.50.166.1/32 is directly connected, Loopback1
C 212.50.166.2/32 is directly connected, Loopback2
C 212.50.166.2/32 is directly connected, Loopback2
C 212.50.185.0/27 is subnetted, 3 subnets
C 212.50.185.0/27 is subnetted, 3 subnets
C 212.50.185.64 is directly connected, Ethernet1/0
C 212.50.185.96 is directly connected, Ethernet0/0
C 212.50.185.32 is directly connected, Ethernet2/0
D*EX 0.0.0.0/0 [170/2174976] via 212.50.185.126, 00:05:55, Ethernet0/0
[170/2174976] via 212.50.185.125, 00:05:55, Ethernet0/0
```

How would you confirm on R1 that load balancing is actually occurring on the default-network (0.0.0.0)?

- **A.** Use ping and the show ip route command to confirm the timers for each default network resets to 0.
- **B.** Load balancing does not occur over default networks; the second route will only be used for failover.
- **C.** Use an extended ping along with repeated show ip route commands to confirm the gateway of last resort address toggles back and forth.
- **D.** Use the traceroute command to an address that is not explicitly in the routing table.

Answer: D

Question No:7 - (Topic 1)

Refer to the configuration statements shown in the graphic above.



R1(config)#access-list 199 permit tcp host 10.1.1.1 host 172.16.1.1

R1(config)#access-list 199 permit tcp host 172.16.1.1 host 10.1.1.1

R1(config)#end

R1#debug ip packet 199 detail

Which statement reflects what the effect is of this configuration sequence?

- **A.** These commands will generate an error message because you cannot use an access list with any debug commands.
- **B.** These commands will have no effect at all. The debug ip packet command will work as normal and display info for all IP packets.
- **C.** These commands turn on debug ip packet only for packets between hosts 10.1.1.1 and 172.16.1.1.
- **D.** These commands will only work when you specify only one host rather than two.

Answer: C

Question No:8 - (Topic 1)

In computer networking a multicast address is an identifier for a group of hosts that have joined a multicast group. Multicast addressing can be used in the Link Layer (OSI Layer 2), such as Ethernet Multicast, as well as at the Internet Layer (OSI Layer 3) as IPv4 or IPv6 Multicast. Which two descriptions are correct regarding multicast addressing?

- **A.** The first 23 bits of the multicast MAC address are 0x01-00-5E. This is a reserved value that indicates a multicast application.
- **B.** The last 3 bytes (24 bits) of the multicast MAC address are 0x01-00-5E. This is a reserved value that indicates a multicast application.
- **C.** To calculate the Layer 2 multicast address, the host maps the last 23 bits of the IP address into the last 24 bits of the MAC address. The high-order bit is set to 0.
- **D.** The first 3 bytes (24 bits) of the multicast MAC address are 0x01-00-5E. This is a reserved value that indicates a multicast application.

Answer: C,D

Question No : 9 - (Topic 1)



The following command is issued on a Cisco Router:

Router(configuration)#logging console warnings

Which alerts will be seen on the console?

- **A.** Warnings only
- **B.** debugging, informational, notifications, warnings
- **C.** warnings, errors, critical, alerts, emergencies
- **D.** notifications, warnings, errors
- E. warnings, errors, critical, alerts

Answer: C

Question No: 10 - (Topic 1)

What is the result if you configure two devices with the ntp server command?

- **A.** Nothing will happen until one of the devices is configured with the prefer parameter.
- **B.** The NTP protocol will determine which server is most reliable and will synchronize to that server.
- **C.** The device with the highest priority will become the active server and the other device will become the backup server.
- **D.** The device with the lowest MAC address will become the active server and the other device will become the backup server.

Answer: B

Question No: 11 - (Topic 1)

Which two statements about the Cisco Aironet Desktop Utility (ADU) are true? (Select two)

- **A.** The Aironet Desktop Utility (ADU) profile manager feature can create and manage only one profile for the wireless client adapter.
- **B.** The Aironet Desktop Utility (ADU) can support only one wireless client adapter installed and used at a time.



- **C.** The Aironet Desktop Utility (ADU) can be used to establish the association between the client adapter and the access point, manage authentication to the wireless network, and enable encryption.
- **D.** The Aironet Desktop Utility (ADU) and the Microsoft Wireless Configuration Manager can be used at the same time to configure the wireless client adapter.

Answer: B,C

Question No: 12 - (Topic 1)

You enabled CDP on two Cisco Routers which are connected to each other. The Line and Protocol status for the interfaces on both routers show as UP but the routers do not see each other a CDP neighbors. Which layer of the OSI model does the problem most likely exist?

- **A.** Physical
- B. Session
- C. Application
- D. Data-Link
- E. Network

Answer: D

Question No : 13 - (Topic 1)

EIGRP is being used as the routing protocol on the Company network. While troubleshooting some network connectivity issues, you notice a large number of EIGRP SIA (Stuck in Active) messages. What causes these SIA routes? (Select two)

- **A.** The neighboring router stops receiving ACK packets from this router.
- **B.** The neighboring router starts receiving route updates from this router.
- **C.** The neighboring router is too busy to answer the query (generally caused by high CPU utilization).
- **D.** The neighboring router is having memory problems and cannot allocate the memory to process the query or build the reply packet.

Answer: C,D



Question No: 14 - (Topic 1)

What level of logging is enabled on a Router where the following logs are seen?

%LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

- A. alerts
- B. critical
- C. errors
- **D.** notifications

Answer: D

Question No: 15 - (Topic 1)

A technician is troubleshooting connectivity problems between two routers that are directly connected through a serial line. The technician notices that the serial line is up, but cannot see any neighbors displayed in the output of the show cdp neighbors command.

In which OSI layer is the problem most likely occurring?

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

Answer: B

Question No : 16 - (Topic 1)

What is the result of configuring the logging console warning command?



- **A.** Messages with a severity level of 4 and higher will be logged to all available TTY lines.
- **B.** Only warning messages will be logged on the console.
- **C.** Warning, error, critical, and informational messages will be logged on the console.
- **D.** Warning, critical, alert, and emergency messages will be logged on the console.
- **E.** The logging console warning command needs to be followed in the configuration with logging buffered byte size to specify the message buffer size for the console.

Answer: D

Question No: 17 - (Topic 1)

Which two of the following options are categories of Network Maintenance tasks?

- A. Firefighting
- B. Interrupt-driven
- C. Policy-based
- **D.** Structured
- E. Foundational

Answer: B,D

Question No: 18 - (Topic 1)

Which three features are benefits of using GRE tunnels in conjunction with IPsec for building site-to-site VPNs? (Choose three.)

- A. allows dynamic routing over the tunnel
- **B.** supports multi-protocol (non-IP) traffic over the tunnel
- C. reduces IPsec headers overhead since tunnel mode is used
- **D.** simplifies the ACL used in the crypto map
- E. uses Virtual Tunnel Interface (VTI) to simplify the IPsec VPN configuration

Answer: A,B,D

Question No: 19 - (Topic 1)

When troubleshooting an EIGRP connectivity problem, you notice that two connected