Exam Code: 642-831

Exam Name: CCNP's Cisco Internetwork Troubleshooting (CIT)

Vendor: CISCO

Version: DEMO

Part: A

1: Refer to the exhibit. An IPSec connection has failed between R2 and R3. What is the most likely cause of the problem?

```
R2# debug crypto isakmp
Crypto ISAKMP debugging is on
R2#
00:59:19: ISAKMP (0): received packet from 192.168.192.2 (N) NEW SA
00:59:19: ISAKMP: local port 500, remote port 500
00:59:19: ISAKMP (0:1): processing SA payload. message ID = 0
00:59:19: ISAKMP (0:1): Checking ISAKMP transform 1 against priority 100 policy
00:59:19: ISAKMP:       encryption DES-CBC
00:59:19: ISAKMP:       hash SHA
00:59:19: ISAKMP:       default group 1
00:59:19: ISAKMP:       auth pre-share
00:59:19: ISAKMP (0:1): atts are acceptable. Next payload is 0
00:59:19: ISAKMP (0:1): SA is doing pre-shared key authentication
00:59:19: ISAKMP (1): SA is doing pre-shared key authentication using id type ID_IPV4_ADDR
00:59:19: ISAKMP (1): sending packet to 192.168.192.2 (R) MM_SA_SETUP
00:59:19: ISAKMP (1): received packet from 192.168.192.2 (R) MM_SA_SETUP
00:59:19: ISAKMP (0:1): processing KE payload. message ID = 0
00:59:19: ISAKMP (0:1): processing NONCE payload. message ID = 0
00:59:19: ISAKMP (0:1): SKEYID state generated
00:59:19: ISAKMP (0:1): processing vendor id payload
00:59:19: ISAKMP (0:1): speaking to another IOS box!
00:59:19: ISAKMP (1): sending packet to 192.168.192.2 (R) MM_KEY_EXCH
00:59:20: ISAKMP (1): received packet from 192.168.192.2 (R) MM_KEY_EXCH
00:59:20: ISAKMP: reserved not zero on payload ID!
00:59:20: %CRYPTO-4-IKMP_BAD_MESSAGE: IKE message from 192.168.192.2   failed its sanity check or is malformed
00:59:20: ISAKMP (0:1): incrementing error counter on sa: PAYLOAD_MALFORMED
00:59:20: ISAKMP (1): sending packet to 192.168.192.2 (R) MM_KEY_EXCH
00:59:20: ISAKMP (0:1): incrementing error counter on sa: reset_retransmission
00:59:21: ISAKMP (0:1): retransmitting phase 1 MM_KEY_EXCH...
00:59:21: ISAKMP (0:1): incrementing error counter on sa: retransmit phase 1

<Output Omitted>
```

A.The hash methods do not match.

B.The Diffie-Hellman group settings do not match.

C.Pre-shared keys do not match.

D.There is an invalid peer address.

Correct Answers: C

2: The above message appears on your console screen. Given this information, which statement is true?

```
Mar  2 12:26:51.091: CRYPTO-SDU: Connection
failed due to incompatible policy
```

A.The wrong peer is set on the crypto map.

B.The crypto algorithms do not match.

C.The DSS key is missing or invalid.

D.The IP address for the remote peer is incorrect.

Correct Answers: B

3: Over the past year the amount of traffic between certain access-layer network segments and the company's intranet website has increased dramatically. The CPU utilization levels of network devices and intranet server are well within acceptable limits. Congestion has been observed at the connection between the access-layer switches and the distribution layer, multilayer switches. What should be done to help eliminate congestion?

A.Upgrade access-layer switches to better performing models.

B.Implement QoS features on the access-layer switches.

C.Upgrade the end user Gigabit Ethernet links.

D.Increase the bandwidth on the upstream links from the access-layer switches.

E.Upgrade the distribution layer, multilayer switches to better performing models.

F.Implement QoS features on the distribution layer, multilayer switches.

Correct Answers: D

4: A network administrator is developing network configuration documentation for a Layer 2 switch and is utilizing the above output to gather information. Which command did the administrator issue to receive this output?

Port	Mode	Encapsulation		Status	Native vlan
Fa5/9	desirable	n-isl		trunking	1

Port	Vlans allowed on trunk
Fa5/9	1-1005

Port	Vlans allowed and active in management domain
Fa5/9	1-6,10,20,50,100,152,200,300,303-305,349-51,400,500,521,524,570, 801-802,850,917,999,1002-1005

Port	Vlans in spanning tree forwarding state and not pruned
Fa5/9	1-6,10,20,50,100,152,200,300,303-305,349-351,400,500,521,524,570, 801-802,850,917,999,1002-1005

A.show spanning-tree

B.show vlan

C.show interfaces capabilities

D.show interfaces trunk

E.show etherchannel summary

Correct Answers: D

5: Which pieces of information would be relevant when creating an end-system network configuration table? (Choose four.)

A.routing protocol characteristics

B.operating system and version

C.IP address and subnet mask

D.network media type

E.DNS server address

F.default gateway address

Correct Answers: B C E F

7: Which commands are used in Windows 2000 to display information that is used in an end-system configuration table? (Choose four.)

A.route print

B.ifconfig -a

C.arp /all
D.arp -a
E.ping [ip-address | hostname]
F.telnet [ip-address | hostname]
Correct Answers: A D E F

8: Which command will enable forwarding of packets that have no default route to the best supernet route possible?
A.ip redirects
B.ip split-horizon
C.ip proxy-arp
D.ip classless
Correct Answers: D

9: In the diagram, the Frame Relay network is configured with EIGRP, and the entire network is in autonomous system 1. RTB and RTC are not receiving each other's routes. What is the solution?
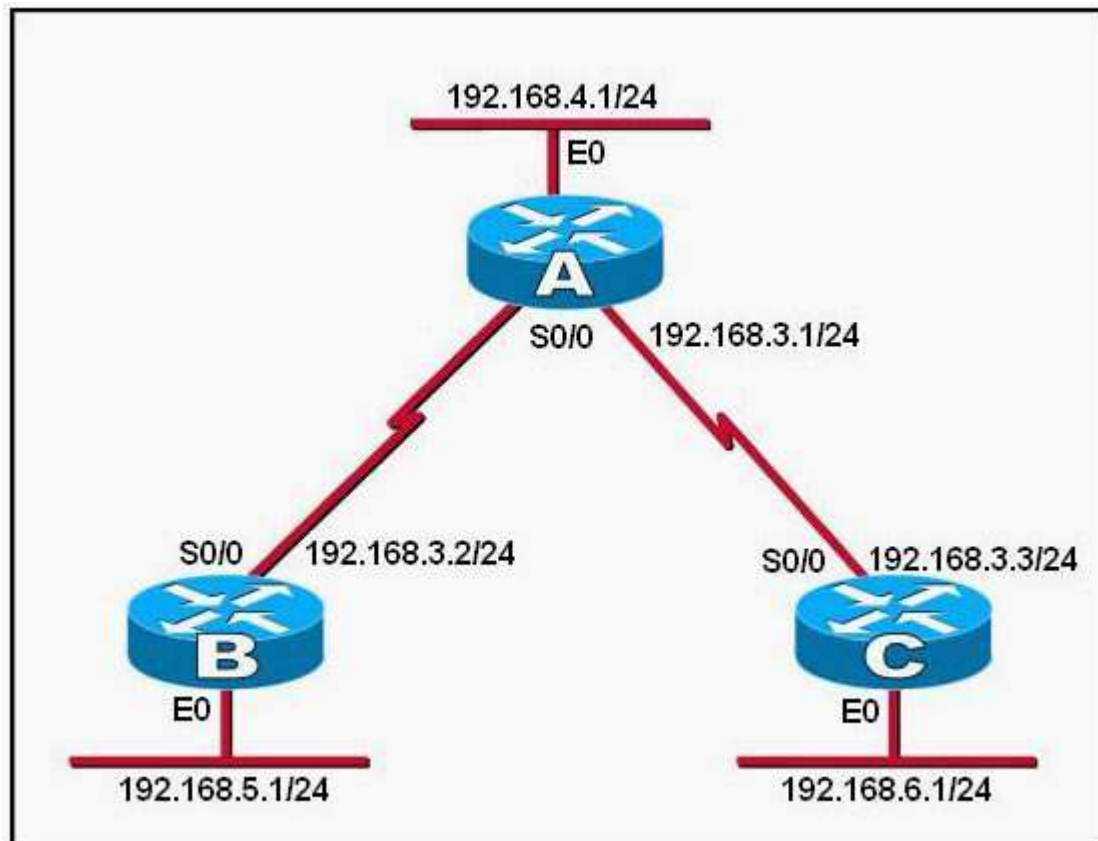
A.Configure the auto summary command under router eigrp.
B.Issue the no ip split horizon command.
C.Configure subinterfaces on the spoke routers and assign different IP address subnets for each subinterface.
D.Check and change the access lists on RTA.
E.Issue the no ip split horizon EIRGP 1 command.
F.Configure a distribute list that allows the router to advertise all routes.

Correct Answers: E

10: Refer to the exhibit. From router RTA, the administrator can telnet to switch SW2, but cannot telnet to switch SW1. On the basis of the information that is generated by the show cdp entry command, which layered-model troubleshooting statement is true?
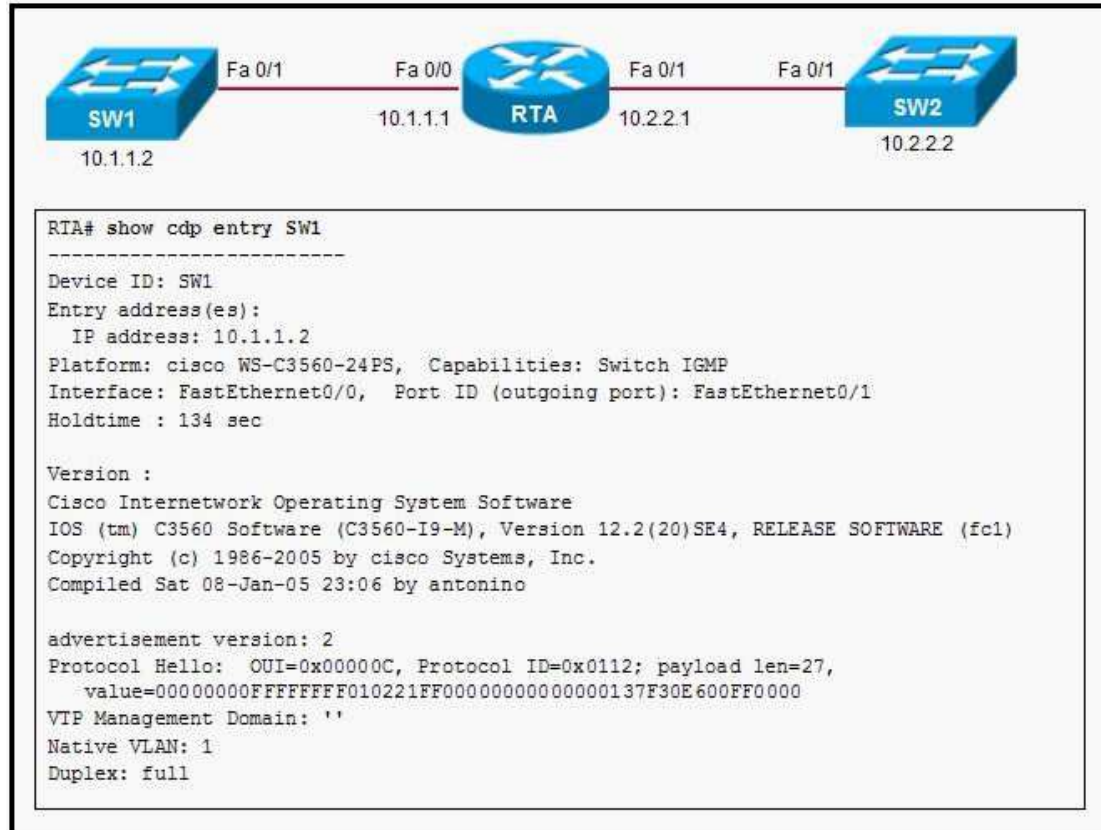
A.The problem resides at Layer 1.

B.The problem resides at Layer 2.

C.The problem resides at Layer 3.

D.The problem resides at Layer 4 or higher.

E.There is an application layer problem with the Telnet program.

Correct Answers: D