



CCIE 400-101

CCIE Routing and Switching Written Exam v5.1

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Version: 40.0

Question: 1

Which three parameters must match to establish OSPF neighbor adjacency? (Choose three.)

- A. the process ID
- B. the hello interval
- C. the subnet mask
- D. authentication
- E. the router ID
- F. the OSPF interface priority

Answer: BCD

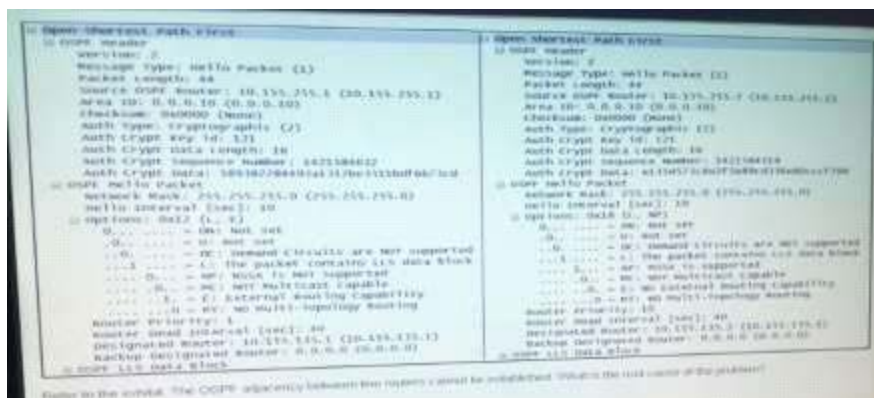
Question: 2

Which statement is true about LLDP?

- A. LLDP provides VTP support.
- B. LLDP does not use a multicast address to communicate.
- C. LLDP can indicate only the duplex setting of a link, and not the speed capabilities.
- D. LLDP does not support native VLAN indication.

Answer: D

Question: 3



The OSPF adjacency between two routers cannot be established. What is the root cause of the problem?

- A. Both routers are designated routers.
- B. different area ID

- C. mismatched OSPF network types
- D. authentication error
- E. area type mismatch

Answer: E

Question: 4

What are two of the commands that you can enter to gracefully shut down OSPF and notify neighbors?(Choose two)

- A. router(config-if)# ip ospf graceful shutdown
- B. router(config-if)# ip ospf shutdown
- C. router(config-router)# shutdown
- D. router(config-router)# graceful shutdown
- E. router(config)# ip notify

Answer: BC

Question: 5

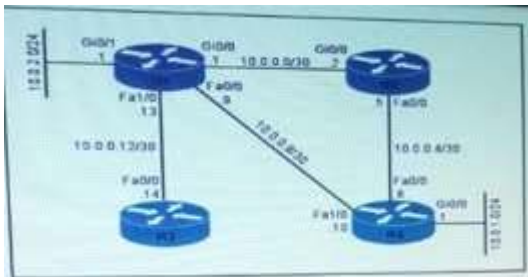
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Answer: BC

Question: 6

A packet from network 10.0.1.0/24 destined for network 10.0.2.0/24 arrives at R1 on interface Gi0/0, but the router drops the packet instead of transmitting it out interface Gi0/1.



Which feature that is configured on R1 can cause this problem?

- A. UDLC
- B. split horizon
- C. uRPF
- D. spanning tree

Answer: C

Question: 7

Which three service offer VLAN transparency for WAN Ethernet services? (Choose three)

- A. ERMS
- B. EPL
- C. ERS
- D. MPLS
- E. EMS
- F. EWS

Answer: BEF

Question: 8

What are two mechanisms that directed ARP uses to help resolve IP addresses to hardware addresses? (Choose two)

- A. It removes address-resolution restrictions, allowing dynamic protocols to advertise rou information for the device loopback address.
- B. It uses ICMP redirects to advertise next-hop addresses to foreign hosts
- C. It uses series of ICMP echo messages to relay next-hop addresses.
- D. It removes address-resolution restrictions, allowing dynamic protocols to advertise routing information for the next-hop address.
- E. t uses a proxy mechanism to allow a device to respond to ARP requests for the addresses of other devices

Answer: BD

Question: 9

Exhibit:

```

access-switch-1#show interface fastethernet0/9
FastEthernet0/9 is up, line protocol is up (connected)
Hardware is Fast Ethernet, address is 04da.d237.9f09 (bia 04da.d237.9f09)
Auto-duplex, Auto-speed, media type is 10/100BaseTX
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes): Total output drops: 59137652

access-switch-1#show mls qos interface fastethernet0/9 statistics
Queue set: 1
output queues dropped:
  queue:      threshold1  threshold2  threshold3
-----
queue 0:         0         0         48252
queue 1:    23164955    39824645         1
queue 2:         0         0         0
queue 3:         0         0         0

```

Your network is suffering excessive output drops. Which two actions can you take to resolve the problem? (Choose two.)

- A. Install a switch with larger buffers.
- B. Configure a different queue set.
- C. Reconfigure the switch buffers.
- D. Configure the server application to use TCP.
- E. Update the server operating system.

Answer: AB

Answer:

Question: 10

Which two statements about DMVPN with NHRP are true? (Choose two)

- A. NHRP shortens the configuration of the hub router.
- B. NHRP dynamically provides information about the spoke routers to the hub.
- C. NHRP disables multicast
- D. The hub router uses NHRP to initiate the GRE tunnel with spokes.
- E. The spoke routers act as the NHRP servers.

Answer: AB

Question: 11

Which two statements about private VLAN communications are true? (Choose two)

- A. Primary VLAN traffic is passed across trunk interfaces.
- B. Isolated ports communicate with other isolated ports.
- C. Promiscuous ports communicate with all other ports.
- D. Promiscuous ports connect only to routers.

Answer: AC

Question: 12

Which command can you use to redistribute IBGP routes into the IGP?

- A. no synchronization
- B. redistribute protocol process-number
- C. bgp redistribute-internal
- D. synchronization

Answer: C

Question: 13

Which two statements about VPLS are true? (Choose two)

- A. The service provider provisions CE devices.
- B. It transmits broadcast traffic more efficiently than Ethernet switches.
- C. It uses broadcast replication to transmit Ethernet packets with multicast MAC addresses.
- D. It enables CE devices to operate as part of an L3 VPN.
- E. It enables CE devices on different networks to operate as if they were in the same LAN.
- F. It enables PE and CE devices to operate as if they were routing neighbors.

Answer: CE

Question: 14

Which two services are used to transport Layer 2 frames across a packet-switched network? (Choose two.)

- A. Frame Relay
- B. ATM
- C. AToM
- D. L2TPv3

Answer: CD

Question: 15

Exhibit:



Which option describes the meaning of this console message?

- A. An EIGRP hold timer has expired.
- B. FastEthernet0/0 has interface errors.

- C. An EIGRP process has been shut down.
- D. An interface has gone down.

Answer: C

Question: 16

Which two statements about Cisco Express Forwarding are true? (Choose two)

- A. The FIB table and the adjacency table reside on the line cards when distributed Cisco Express Forwarding is enabled.
- B. Layer 2 next-hop address information is maintained in the adjacency table.
- C. The FIB table and the adjacency table reside on the line cards when Cisco Express Forwarding is enabled.
- D. Layer 2 next-hop address information is maintained in the FIB table.
- E. The FIB table resides on the route processor and the adjacency table resides on the line cards when Cisco Express Forwarding is enabled.

Answer: AB

Question: 17

When is it useful to disable split horizon on an EIGRP interface?

- A. Disable it when you want to provide additional backup paths in your network.
- B. Disable it when you want to send routes that are learned from another routing protocol to peer on the same interface.
- C. Disable it when you need to send updates to peers on the interface on which the updates were received.
- D. It is never advisable to disable split horizon on an EIGRP interface.

Answer: C

Question: 18

Which two statements about RIPv6 are true? (Choose two)

- A. IPv6 can support as many as 8 equal-cost routes.
- B. IPv6 can support as many as 32 equal-cost routes.
- C. A route with a metric of 15 is advertised as unreachable.
- D. Both inbound and outbound route filtering can be implemented on a single interface.
- E. 16 is the maximum metric it can advertise.

Answer: DE

Question: 19

Which two statements about TCP MSS are true? (Choose two.)

- A. The two endpoints in a TCP connection report their MSS values to one another.
- B. It operates at Layer 3.
- C. MSS values are sent in TCP SYN packets
- D. It sets the maximum amount of data that a host sends in an individual datagram
- E. It sets the minimum amount of data that a host accepts in an individual datagram

Answer: CD

Question: 20

which three statements about automatic 6to4 tunneling are true?(choose three)

- A. It allows an IPV6 domain to be connected over an IPV4 network
- B. 6to4 tunnels are configured only in a point-point configuration
- C. It allows an IPV4 domain to be connected over an IPV6 network
- D. The IPV4 address embedded into the IPV6 address is used to find other of the tunnel
- E. The MAC address embedded into the IPV6 address is used to find the other end of the tunnel
- F. 6to4 tunnels are configured in a point-to-multipoint configuration

Answer: ADF

Question: 21

Which two statements about OSPF route filtering are true? (Choose two)

- A. It can be based on the source router ID
- B. It can be based on the external route tag.
- C. It affects LSA flooding.
- D. It can be based on the as-path.
- E. It can be based on distance-

Answer: AB

Question: 22

Which two statements about asymmetric routing are true? (Choose two)

- A. It can cause packet loss over stateful ICMP and UDP connections
- B. It can cause packet loss when a stateful firewall is in use.
- C. It can cause TCP connections to close.
- D. It can cause packet loss when NAT is in use.
- E. It is uncommon in large networks.

Answer: BD

Question: 23

Which two statements about IS-IS metrics are true?(choose two)

- A. The default metric style is narrow
- B. The default metric for the IS-IS interface is 63
- C. The default metric style is wide
- D. The default metric for the IS-IS interface is 64
- E. The default metric for the IS-IS interface is 10

Answer: AE

Question: 24

Which two pieces of information are returned by the show ipv6 mld snooping querier command?
(Choose two)

- A. Learned group information
- B. IPv6 address information
- C. MLD snooping querier configuration
- D. incoming interface

Answer: BD

Question: 25

Which three statements about microbursts are true? (choose three)

- A. They can occur when chunks of data are sent in quick succession
- B. They occur only with UDP traffic
- C. They appear as input errors on an interface counter
- D. They appear as ignores and overruns on device buffers
- E. They can be monitored by IOS software
- F. They appear as misses and failures on device buffers

Answer: ADE

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