350-027

Cisco
CCIE Written: Metro Ethernet

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QUESTION: 1

What kind of packet is being decoded, using the captured debug mpls l2transport packet data command, below?

```
*Apr 26 16:39:09.092: ATOM imposition: out Et1/0, size 128, EXP 0x0, seq 0, control word 0x0
*Apr 26 16:39:09.092: XX XX XX XX XX XX YY YY YY YY YY YY 88 47 00 01
                      ^^^^^^^^^^^^^^^^^ ^^^^^^^^^^^^^^^^^ ^^^^^ ^^^^^
                      SA MAC            DA MAC            etype top_shim-->
                                                         MPLS
                                                         Unic

*Apr 26 16:39:09.092: 00 FF 00 01 01 02 00 00 00 00 03 CC 45 00 00 64
                      ^^^^^ ^^^^^^^^^^^ ^^^^^^^^^^^ ^^ ^^ ^^^^^...
                      <--top_shim VC_Label    Ctrl-word   |  | Begins IP Packet
                           Label=17 Label=16              | IP NLPID
                           S=0      S=1                  Control
                           TTL=255  TTL=2

*Apr 26 16:39:09.092: 04 7A 00 00 FF 01 93 77 0A 0A 07 CC 0A 0A 07 C8
*Apr 26 16:39:09.092: 08 00 80 46 00 09 00 04 00 00 00 00 14 4E E9 A8
*Apr 26 16:39:09.092: AB CD AB CD AB CD AB CD AB CD AB CD AB CD AB CD
*Apr 26 16:39:09.092: AB CD AB CD AB CD AB CD AB CD AB CD AB CD AB CD
*Apr 26 16:39:09.092: AB CD AB CD AB CD AB CD AB CD AB CD AB CD AB CD
*Apr 26 16:39:09.092: AB CD AB CD AB CD AB CD AB CD AB CD AB CD AB CD
```

A. HDLC
B. PPP
C. Ethernet
D. RFC 2427/RFC1490

Answer: D

QUESTION: 2

What Q.931 message cannot be received in response to sending a Q.931 SETUP message?

A. Alerting
B. Call Proceeding
C. Connect
D. USER Information
E. Progress

Answer: D

QUESTION: 3

The Hold-Down Timer used in Distance Vector protocols:

A. Sets the time limit of how long a router may keep a packet in its buffer, if the routing protocol is in the process of converging

B. Determines the number of seconds a router will wait before sending another update to neighbor routers

C. Sets a specific period for routers to neither accept nor advertise a route from a destination where an original route was recently lost

D. Sets a duration where routes are not accepted from the neighbor router that caused a routing loop

Answer: C

QUESTION: 4
Click the Exhibit button. PE1 and PE2 are connected to the MPLS cloud. All MPLS labels from PE1 and PE2 are working. Observing the shown topology, will this scenario work?
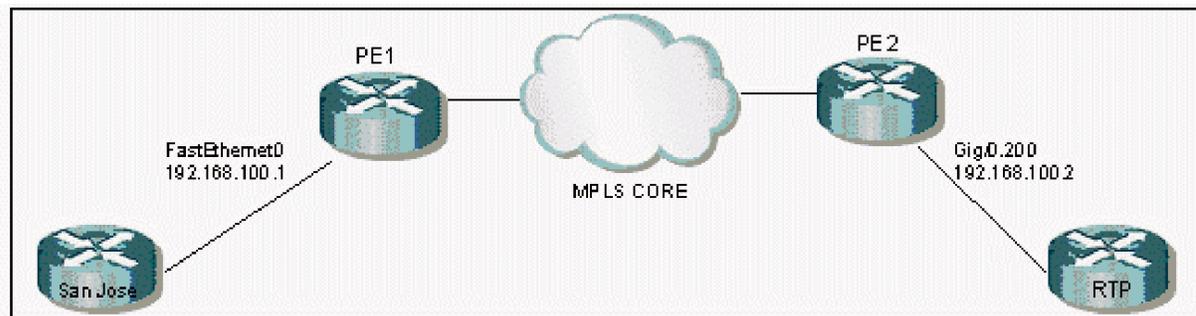
A. This scenario will not work because Gigabit Ethernet can't be connected to FastEthernet over MPLS.

B. This scenario will work because the issues concerning Gigabit and FastEthernet over MPLS with default behavior should not make any difference.

C. This scenario will not work because Gigabit usually has MTU over 9000 and FastEthernet 1500.

D. This scenario will not work because one side has dot1q header and another side is in port mode.

E. This scenario will work by configuring PWE Class using the Interworking feature. By default, the MTU on each side is 1500, so this is an acceptable solution.

Answer: E

QUESTION: 5
Which do NOT exist?

A. Per VLAN Spanning Tree (PVST).

B. Per VLAN Spanning Tree Plus (PVST+).

C. Per VLAN Spanning Tree Plus Plus (PVST++).
D. Rapid STP (RSTP).
E. Resilient STP (RSTP).

Answer: C, E

QUESTION: 6
Which commands are valid in ethernet or ethernet VLAN attachment circuits?

A. match cos
B. match ethernet cos
C. match source-mac
D. match vlan
E. match ethernet multicast

Answer: A, D

QUESTION: 7
OSPF is defined on a Frame Relay interface providing point-to-multipoint connections. The remote neighbors can reach this central site, but are complaining of routing failures between each of the remote sites. The central router has all the routes for each remote site. Based on this information, what can be diagnosed as the biggest potential problem?

A. An over-subscribed Frame Relay switch will cause some packet loss.
B. There are problems in the use of OSPF Authentication.
C. There is an incorrect selection of the Designated Router.
D. There is an incorrect DLCI assigned on a point-to-point sub-interface.

Answer: C

QUESTION: 8
EIGRP applies the principle of Feasible Successor (FS) in resolving a new path to a lost route. What statement regarding the FS is correct?

A. Information is stored for the FS as part of the Link-State Routing updates forwarded for EIGRP.
B. EIGRP estimates the FS from each neighbor for each network after an exchange of database information during the normal update process. It uses this information for path selection when a route is lost.
C. When EIGRP is notified that a route is lost, it will always send requests to each neighbor for ways to reach the lost route. The neighbor that returns the best path will qualify as the FS.

D. EIGRP nominates a central router as the FS for all lost routes during configuration.

Answer: B

QUESTION: 9
What technology allows transporting Layer2 attachment circuits over IP-only backbones?

A. GRE
B. AToM
C. L2TPv3
D. DLSW+

Answer: C

QUESTION: 10
Which are supported ways of transporting ATM over MPLS?

A. AAL5 SDU VC Mode
B. AAL5 SDU VP Mode
C. Packet Cell Relay AAL5 Trunk Mode
D. Packed Cell Relay Trunk mode
E. AAL2oMPLS

Answer: A, C

QUESTION: 11
What IE is not mandatory in a Q.931 Service msg?

A. Bearer capability
B. Channel ID
C. Message Type
D. Change Status
E. Call Reference

Answer: A

QUESTION: 12
Which statements are true regarding VPLS?

A. There is a full mesh of pseudowires.

B. There is a partial mesh of pseudowires.
C. Only L2TPv3 can be used for pseudowire establishment.
D. STP runs in the core.
E. There is split-horizon to avoid loops.

Answer: A, E

QUESTION: 13
How many bits does TCI contain?

A. 1
B. 3
C. 6
D. 12
E. 16
F. 20

Answer: E

QUESTION: 14
What command is used for Interworking configuration?

A. `interworking {etherner | ip} in interface config mode.
B. `interworking {etherner | ip} in pseudowire-class config mode.
C. `Interworking {bridged | routed} in l2tp-class mode.
D. `{ip | ethernet}Interworking in pseudowire-class config mode.

Answer: B

QUESTION: 15
A router is set to boot from flash, but cannot find boot commands in the configuration. Also, valid files do not exist in the default flash device. The router will:

A. Boot from ROM, since there are no valid sources
B. Try to boot from the network, using a default filename
C. Terminate the boot process with an error message
D. Try to boot from the network, then boot from ROM as a backup

Answer: D