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QUESTION 1

What MPLS tunnel label(s) will be used in the data packet traveling on LSP toR4 FRR leaving from Node 3 to Node 4?

Node 3

```
# show router mpls lsp toR4FRR path detail

=====
MPLS LSP toR4FRR Path (Detail)
=====
Legend :
  @ - Detour Available          # - Detour In Use
  b - Bandwidth Protected      n - Node Protected
=====

LSP toR4FRR Path toPod4
=====
LSP Name       : toR4FRR                Path LSP ID    : 17
From           : 10.10.1.3              To             : 10.10.1.4
Adm State      : Up                     Oper State     : Up
Path Name      : toPod4                 Path Type      : Primary
Path Admin     : Up                     Path Oper      : Up
OutInterface   : n/a                    Out Label     : n/a
Path Up Time   : 0d 00:06:15             Path Dn Time   : 0d 00:00:00
Retry Limit    : 0                       Retry Timer    : 30 sec
RetryAttempt   : 3                       Next Retry In  : 6 sec
Bandwidth      : No Reservation           Oper Bandwidth : 0 Mbps
Hop Limit      : 255
Record Route   : Recrd                   Record Label   : Record
Oper MTU       : 9198                     Negotiated MTU : 9198
Adaptive       : Enabled                  MBB State      : N/A
Include Grps   :                         Exclude Grps    :
None                                                    None
Path Trans     : 19                       CSPF Queries   : 6
Failure Code   : badNode                   Failure Node    : 10.1.5.1
ExplicitHops   :
  10.10.1.4
Actual Hops    :
  10.1.5.2(10.10.1.3) @ #
-> 10.1.4.2(10.10.1.4)                    Record Label   : 131068
=====

# show router mpls bypass-tunnel

=====
MPLS Bypass Tunnels
=====
To           State   Out I/F      Out Label    Reserved    Protected
              BW (Kbps) LSP Count
-----
10.1.4.2     Active  1/1/6       131069       0           2
=====
Bypass Tunnels : 1
```



- A. 131069 131068
- B. 131068 3
- C. 131069
- D. 131068
- E. No label is used in the data packet

Correct Answer: A

QUESTION 2

Due to same VPLS mis-configuration, traffic (e.g.ping) is not work between PC1 and PC 2. Choose the best explanation for the problem.

- A. MTU is not configured on all sdp
- B. SDP id has to match on all three nodes
- C. STP has to be enabled on all three nodes
- D. No SAP is configured on Node-2
- E. Spoke-sdp has to be used on all three nodes

Correct Answer: E

QUESTION 3

VPRN 300 is configured between Node 3 and Node 4. Node 4 receives VPN routes from Node 3 and imports them into the VRF. The entire route-table is displayed below for VPRN 300 on Node

4. When attempting a ping from VPRN 300 on Node 4 to 30.1.1.1 the ping fails. A ping from Node 3 within VPRN 300 to 30.1.1.1 is successful. What is the cause of the problem?

Node 4						
# show router 300 route-table						
=====						
Route Table (Service: 300)						
=====						
Dest Address	Next Hop	Type	Proto	Age	Metric	Pref

5.5.5.5/32	10.10.1.3	Remote	BGP VPN	00h35m52s	0	170
30.1.1.0/24	10.10.1.3	Remote	BGP VPN	01h03m11s	0	170
=====						
# ping router 300 30.1.1.1						
MINOR: CLI No route to destination "30.1.1.1".						

- A. No local interface existed in VPRN 300 route-table on Node 4
- B. Syntax problem in the ping command



- C. Prefix 30.1.1.1 does not exist on the far-end
- D. Source address has to be specified in the ping command
- E. Next-hop address has to be specified in the ping command

Correct Answer: A

QUESTION 4

Two routers are physically connected to each other with ISIS configured. No ISIS adjacency can be found on both routers. Ping works fine on the local and the remote interface addresses on both routers. Review the configuration information shown below. Which of the following statements best describe the cause of the problem? Select one answer only.



Node-1

```
# show router isis interface
=====
Interface                          Level CircID Oper State  L1/L2 Metric
-----
to-Node-2                          L1      2      Up          10/-
=====

ISIS Status
=====
System Id       : 0100.1000.1001
Admin State     : Up
Ipv4 Routing    : Enabled
Last Enabled    : 12/14/2006 14:44:59
Level Capability : L1L2
Authentication Check : True
Authentication Type : None
Adjacency Check : loose
L1 Auth Type    : none
L2 Auth Type    : none
L1 CSNP-Authenticati*: Enabled
L1 HELLO-Authenticat*: Enabled
L1 PSNP-Authenticati*: Enabled
L1 Wide Metrics : Disabled
L2 Wide Metrics : Disabled
L1 LSPs         : 1
L2 LSPs         : 3
Last SPF        : 12/14/2006 14:47:16
SPF Wait        : 10 sec (Max)  1000 ms (Initial)  1000 ms (Second)
Export Policies : None
Area Addresses  : None
```

Node-2

```
# show router isis interface
=====
Interface                          Level CircID Oper State  L1/L2 Metric
-----
toPod1                             L1      3      Up          10/-
=====

Interfaces : 1
=====

ISIS Status
=====
System Id       : 0100.1000.1002
Admin State     : Up
Ipv4 Routing    : Enabled
Ipv6 Routing    : Disabled
Last Enabled    : 12/14/2006 09:57:41
Level Capability : L1L2
Authentication Check : True
Authentication Type : None
Adjacency Check : loose
L1 Auth Type    : none
L2 Auth Type    : none
L1 CSNP-Authenticati*: Enabled
L1 HELLO-Authenticat*: Enabled
L1 PSNP-Authenticati*: Enabled
L1 Wide Metrics : Disabled
L2 Wide Metrics : Disabled
L1 LSPs         : 1
L2 LSPs         : 3
Last SPF        : 12/14/2006 10:00:35
SPF Wait        : 10 sec (Max)  1000 ms (Initial)  1000 ms (Second)
Export Policies : None
Area Addresses  : None
```

- A. The ISIS interface level configured does not match the ISIS level capability supported on the routers
- B. The ISIS authentication check is enabled but there is no authentication type and password configured
- C. ISIS Area addresses are not configured on both routers



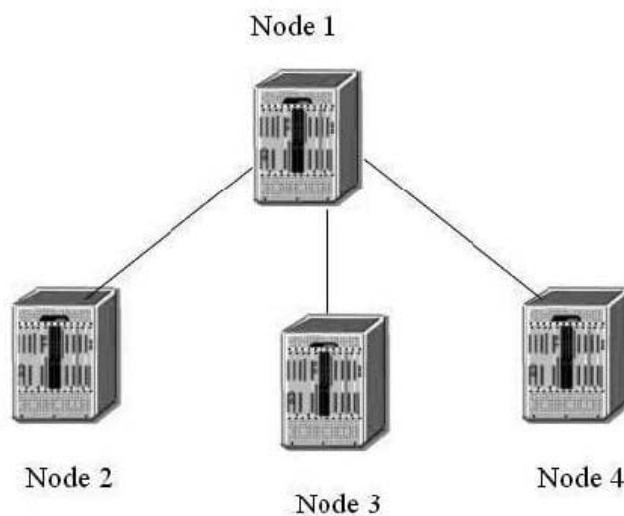
D. L1 wide Metrics are disabled on the routers

E. ISIS Circuit id does not match on Node-1 and Node-2

Correct Answer: C

QUESTION 5

Based on the following configuration, which of the following statements are true? Choose all that apply.



Node-1

```
config>router>ospf#
  area 0.0.0.0
    interface "to-Node-2"
      metric 50
      authentication-key "DoGpEhE4333mNp52Iug6Z82" hash2
    interface "to-Node-3"
      metric 50
  area 0.0.0.1
    nssa
      originate-default-route
    interface "to-Node-4"
      metric 50
```

Node-2

```
config>router>ospf#
  area 0.0.0.0
    interface "to-Node-1"
      authentication-key "Sb77iS4bFCeH2&rm5iaFuH&XNbn1Ag82" hash2
```

Node-3

```
config>router>ospf#
  area 0.0.0.3
    interface "to-Node-1"
      hello-interval 15
```

Node-4

```
config>router>ospf#
  area 0.0.0.1
    interface "to-Node-1"
      metric 50
```



- A. No OSPF adjacency found on Node 1
- B. Full OSPF adjacency between Node-1 and Node-2
- C. Full OSPF adjacency between Node-1 and Node-3
- D. Full OSPF adjacency between Node-1 and Node-4
- E. OSPF is enabled on Node 1

Correct Answer: BE

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