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QUESTION 1

Two direct connected routers are running RIPv2, neighbors are up but there is no route in the RIP database. Review the configuration information below. What is the potential problem?

```
Node 1

        router rip
        group "test"
            neighbor "toPod2"
            exit
        exit
```

```
Node 2

        router rip
        group "test"
            neighbor "toPod1"
            exit
        exit
```

A. System interface is not added to the RIP protocol

B. No import policy is configured

C. No export policy is configured

D. Split-horizon has to be disabled in RIP

E. Message-size has to be configured with a non-zero value

Correct Answer: C

QUESTION 2

VPRN 300 is confiugred on Node 3 and Node 4 with LDP as the transport. No VPN routes are exchanged between Node 3 and Node 4. What is the cause of the problem?

```
Node 3

Route Table (Service: 300)
============================================================================
Dest Address      Next Hop      Type      Proto   Age         Metric    Pref
----------------------------------------------------------------------------
30.1.1.0/24       toCPE3        Local     Local   00h07m42s 0           0
```

```
Node 4

----------------------------------------------------------------------------
Route Table (Service: 300)
============================================================================
Dest Address      Next Hop      Type      Proto   Age         Metric    Pref
----------------------------------------------------------------------------
30.1.2.0/24       toCPE4        Local     Local   00h00m05s 0           0
40.1.1.1/32       30.1.2.2      Remote    Static  00h00m05s 1           5
```

Node 3
```
            community "VPRN300IN" members "target:100:100"
            community "VPRN300OUT" members "target:100:100" "target:200:200"
            policy-statement "VPRN300IN"
                  entry 10
                        from
                              community "VPRN300IN"
                        exit
                        action accept
                        exit
                  exit
            exit
            policy-statement "VPRN300OUT"
                  entry 10
                        action accept
                              community add "VPRN300OUT"
                        exit
                  exit
            exit
```
Node 3

```
# show service id 300 base

=============================================================
Service Basic Information
=============================================================
Service Id        : 300              Vpn Id          : 0
Service Type      : VPRN
Customer Id       : 1
Last Status Change: 04/28/2007 10:20:08
Last Mgmt Change  : 04/30/2007 12:13:01
Admin State       : Up               Oper State      : Up

Route Dist.       : 100:100
AS Number         : None             Router Id       : 10.10.1.3
ECMP              : Enabled          ECMP Max Routes : 1
Max Routes        : No Limit         Auto Bind       : LDP
Vrf Target        : target:100:101
Vrf Import        : VPRN300IN
Vrf Export        : VPRN300OUT

SAP Count         : 1                SDP Bind Count  : 0

-------------------------------------------------------------
Service Access & Destination Points
-------------------------------------------------------------
Identifier                Type       AdmMTU  OprMTU  Adm    Opr
-------------------------------------------------------------
sap:1/1/7:3.4             qinq       1522    1522    Up     Up

Node 4
# show service id 300 base

=============================================================
Service Basic Information
=============================================================
Service Id        : 300              Vpn Id          : 0
Service Type      : VPRN
```

A. VRF policy configured on Node 3 does not match with vrf-target configured on Node 4

B. No SDP defined in the VPRN configuration on both nodes

C. VRF-target mismatch on Node 3 and Node 4

D. Route-distinguisher mismatch on Node 3 and Node 4

E. Encapsulation type mismatch on SAPs on Node 3 and Node 4

Correct Answer: A

QUESTION 3

Which of the following debug statements can be used to troubleshoot if the OSPF adjacency is staying at xstart state? Select two answers.

A. Debug router ospf rtm

B. Debug router ospf packet dbdescr

C. Debug router ospf neighbor

D. Debug router ospf packet hello

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E. Debug router ospf spf

Correct Answer: BC

QUESTION 4

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: Record              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 5

A CSPF LSP with no bandwidth requirement is established from Node 1 (10.10.1.1) to Node 2 (10.10.1.2). OSPF-TE is enabled on all routers in the network. What commands can be used on Node 1 to determine if another LSP can be established to Node 2 with 400M bandwidth requirement? Choose all that apply.

A. Show router lsp detail

B. Show router ospf database detail

C. Show router ospf opaque-database detail

D. Tools perform router mpls cspf to 10.10.1.2 bandwidth 400

E. Tools dump router mpls lspinfo

Correct Answer: CD

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