Testpassport*Q&A*

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Exam : **4A0-106**

Title : Alcatel-Lucent Virtual
Private Routed Networks

Version : Demo

1.Click the exhibit.
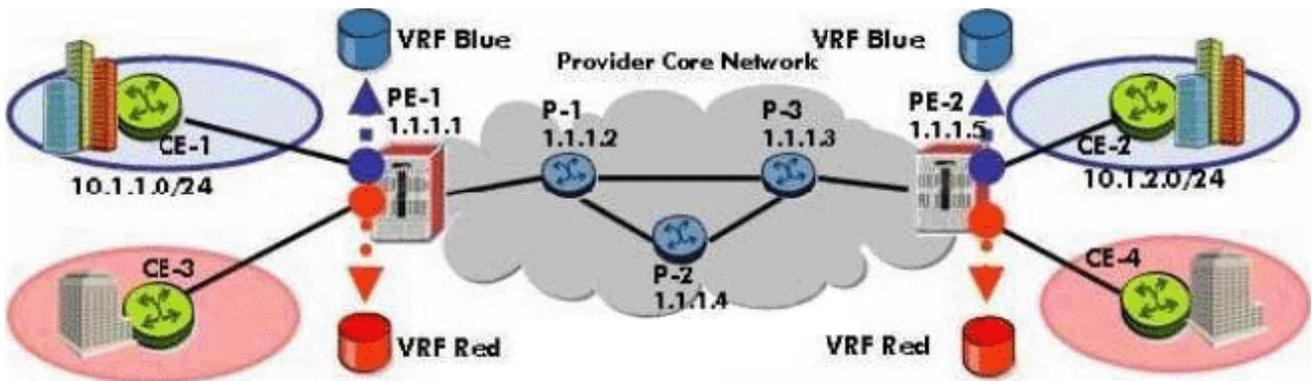

```
*A:PE-1# configure service vprn 20 customer 101 create
*A:PE-1>config>service>vprn$ description "VPRN Blue"
*A:PE-1>config>service>vprn$ route-distinguisher 65100:101
*A:PE-1>config>service>vprn$ vrf-target target:65100:101
*A:PE-1>config>service>vprn$ auto-bind ldp
*A:PE-1>config>service>vprn$ router-id 1.1.1.1
*A:PE-1>config>service>vprn$ interface to-CE-1 create
*A:PE-1>config>service>vprn>if$ address 10.1.6.1/27
*A:PE-1>config>service>vprn>if$ sap 1/1/2 create
*A:PE-1>config>service>vprn>if$ exit
*A:PE-1>config>service>vprn$
```

What is wrong with the VPRN configuration applied on this Alcatel-Lucent 7750 SR?

A. The VPRN ID must match the value used in the vrf-target command.

B. The VPRN ID must match the value used in the route-distinguisher command.

C. The router-id command should not be used in this context.

D. The "no shutdown" command must be configured for the VPRN to be operationally UP.

Answer: D

2.VPN-IPv4 addressing is made unique by defining an address structure consisting of:

A. A 64-bit Route Target followed by a 32-bit IPv4 address.

B. A 64-bit Route Distinguisher followed by a 32-bit IPv4 address.

C. A 32-bit Route Distinguisher followed by a 32-bit IPv4 address.

D. A 32-bit Route Target followed by a 32-bit IPv4 address.

Answer: B

3.Click the exhibit.
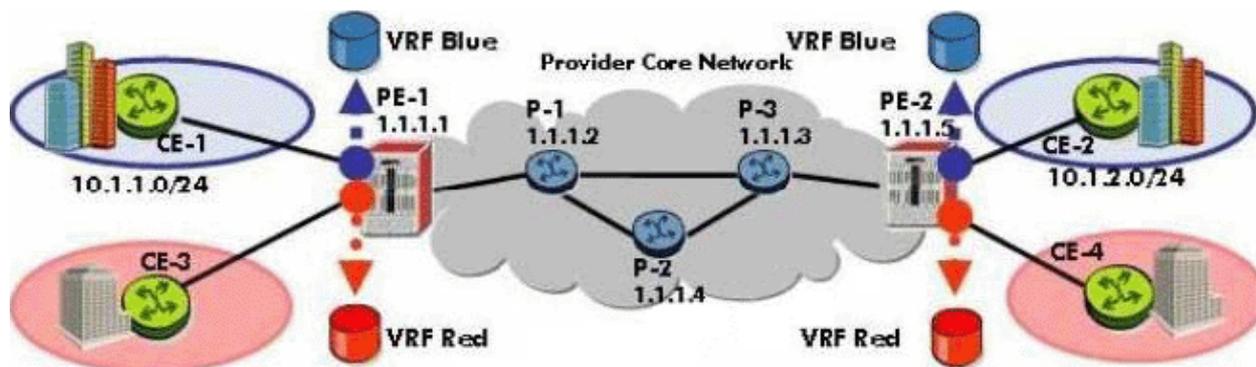
```
P-1# configure router ldp
P-1>config>router>ldp# interface-parameters
P-1>config>router>ldp>if-params# interface "P-1 to PE-1"
P-1>config>router>ldp>if-params>if# exit
P-1>config>router>ldp>if-params# interface "P-1 to P-2"
P-1>config>router>ldp>if-params>if# exit
P-1>config>router>ldp>if-params# interface "P-1 to P-3"
P-1>config>router>ldp>if-params>if# exit
```
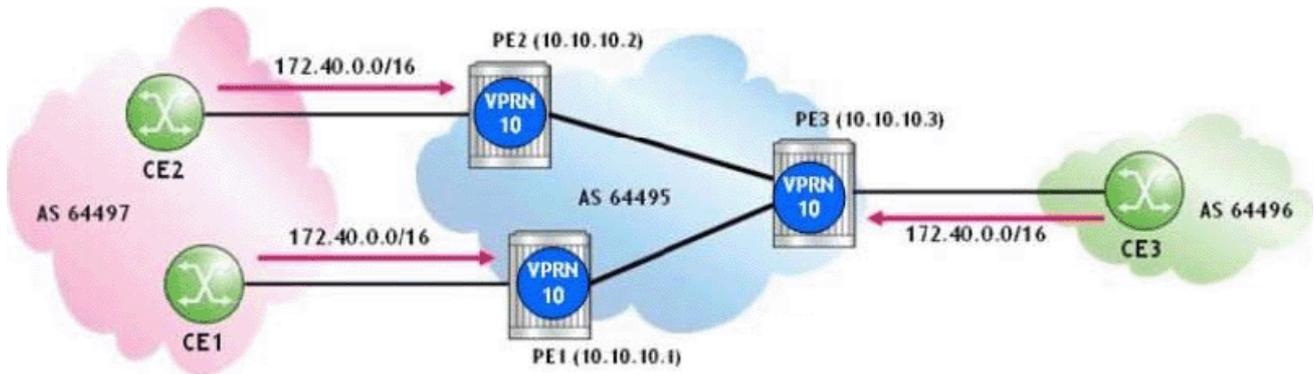
An Alcatel-Lucent 7750 SR is to be configured as a core router that supports VPRNs using LDP as the transport protocol.

Which of the following best describes this configuration?

A. This configuration is correct and complete.

B. This configuration is correct, but the interfaces must also be configured in the "configure router mpls" context.

C. There is no configuration required for LDP in the core network.

D. This configuration is correct, but Targeted-LDP is also required.

Answer: A

4.Click the exhibit.

Based on the displayed configuration, which routes does PE3 place in the VPRN 10 routing table?
A. The routes learned from CE3 and PE1.
B. The route learned from CE3 only.
C. The routes learned from PE1 and PE2.
D. The routes learned from CE3 and PE2.
Answer: A

5.Click the exhibit.
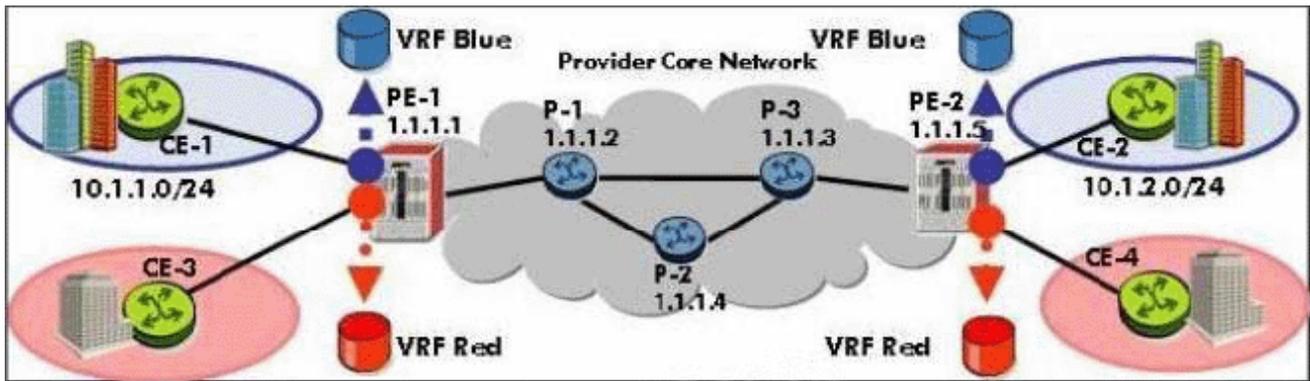
```
1.PE-1# configure service
2.PE-1>config>service# sdp 42 mpls create
3.PE-1>config>service>sdp$ far-end 1.1.1.5
4.PE-1>config>service>sdp$ lsp "To-PE2"
5.PE-1>config>service>sdp$ no shutdown
6.PE-1>config>service>sdp$ exit
7.PE-1>config>service# vprn 100
8.PE-1>config>service>vprn# spoke-sdp 42 create
9.PE-1>config>service>vprn>sdp$ exit
10.PE-1>config>service>vprn# exit
11.PE-1>config>service# exit
12.PE-1>config# router ldp shutdown
13.PE-1>config# exit
```

On an Alcatel-Lucent 7750 SR. an SDP is configured for a VPRN service using an existing MPLS LSP.
Which of the following about the configuration is TRUE?

A. The configuration is incomplete, as the 'auto-bind' command is missing.

B. The configuration is correct; LDP can be shutdown if there are no Layer 2 services in the network.

C. The configuration is incorrect, as spoke SDP configuration using MPLS LSPs is not supported in a
VPRN service.

D. The configuration is incorrect; Line 8 should be 'spoke-sdp 42 mpls create'.

Answer: B

6.Click the exhibit.

PE2>config>service>vprn# aggregate 172.12.0.0/16 summary-only as-set
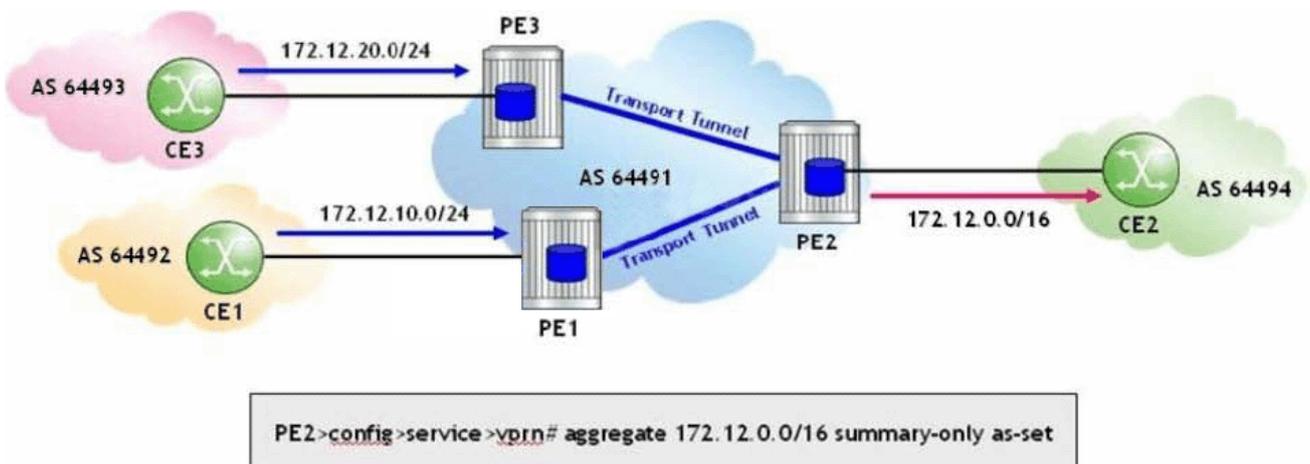
If the displayed command is executed, what is the correct value of AS-Path in the BGP route
172.12.0.0/16 advertised by PE2?
A. 64491 {64492 64493}
B. 64491
C. 64492 64493 64491
D. {64492 64493} 64491
Answer: A

7.Which of the following regarding the Route Distinguisher is FALSE?
A. The Route Distinguisher is an 8-byte value containing 3 fields.
B. The assigned number field contains a number assigned by the service provider.
C. The administrator field contains either an AS number or an IP address.
D. The Route Distinguisher is not used if the customer addresses do not overlap.
Answer: D

8.In a VPRN that uses MPLS transport tunnels, which of the following is NOT configured on the PE
device?
A. MP-BGP for exchanging customer routes with other PEs.
B. A routing protocol for exchanging customer routes with the CE.
C. A label signaling protocol for defining transport tunnels between the PE and CE.
D. MPLS for exchanging labels with other provider core devices.
Answer: C

9.Based on the VPRN BGP decision process, which of the following routes is selected first?
A. The route with the shortest AS path.
B. The route with the lowest route or tunnel table cost to the NEXTHOP.
C. The route with the highest local preference.
D. The route with the lowest originator ID or BGP identifier.
Answer: C

10.Which of the following about the maximum number of routes that can be accepted in a VRF for a
VPRN service on the Alcatel-Lucent 7750 SR is FALSE?
A. The Alcatel-Lucent 7750 SR allows the setting of the maximum number of routes that can be accepted
in a VRF for a VPRN service.
B. The "maximum-routes" command is used to specify the maximum number of remote routes that can be
held within a VRF for a VPRN service.
C. When the "maximum-routes" command is used with the "log-only" parameter, new routes are still
learned.
D. Once the "threshold" value is reached, no new routes are added to the VRF.
Answer: D

11.When VPRN Outbound Route Filtering (ORF) is enabled, each PE sends its ORF list to its peer using
which of the following BGP message types?
A. Open

B. Update

C. Route Refresh

D. Notification

Answer: C

12.How are local CE routes associated with the appropriate VRF at the PE?

A. Based on the interface on which they are received.

B. Based on the Route Distinguisher.

C. Based on the Route Target.

D. Based on the Service Identifier.

Answer: A

13.Which of the following is not a valid BGP design for a network provider supporting VPRNs?

A. Full mesh of MP-BGP between all P devices

B. Full mesh of MP-BGP between PE devices

C. Route reflector configuration between PE devices

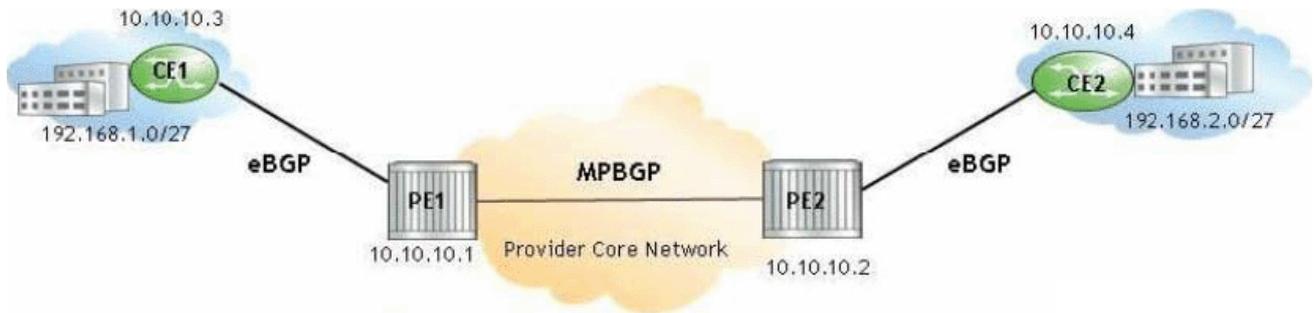D. Confederation configuration between PE devices

Answer: A

14.A service provider core consists of 6 PE and 4 P routers.

Assuming route reflection is not used, how many internal BGP sessions are required in the service

provider network for a correct operation of VPRN services?

A. 1

B. 5

C. 15

D. 30

E. 45

Answer: C

15.Click the exhibit.

```
*A:PE2# show router bgp neighbor 10.10.10.1 received-routes vpn-ipv4
==================================================================================
BGP Router ID:10.10.10.2        AS:64496        Local AS:64496
==================================================================================
Legend -
Status codes  : u - used, s - suppressed, h - history, d - decayed, * - valid
Origin codes  : i - IGP, e - EGP, ? - incomplete, > - best
==================================================================================
BGP VPN-IPv4 Routes
==================================================================================
Flag  Network                                       LocalPref   MED
      Nexthop                                                   VPNLabel
      As-Path
----------------------------------------------------------------------------------
u*>i  64496:1:10.1.3.0/27                           100         None
      10.10.10.1                                                131070
      No As-Path
u*>?  64496:1:10.10.10.3/32                         100         None
      10.10.10.1                                                131070
      No As-Path
u*>?  64496:1:192.168.1.0/27                        100         None
      10.10.10.1                                                131070
      No As-Path
----------------------------------------------------------------------------------
Routes : 3
```

Which of the following best describes the output?

A. The AS-Path is not present because a policy is configured on PE2 to set it to null.

B. The AS-Path is not present because a policy is configured on CE1 to set it to null.

C. The AS-Path is not present because a policy is configured on PE1 to set it to null.

D. The AS-Path is not present because VPN-IPv4 routes do not propagate the IPv4 AS-Path BGP attribute.

Answer: C

16.Which of the following about BGP loops in a VPRN environment is FALSE?

A. Traditional BGP loop detection mechanisms may detect a loop in the VPRN scenario, which in fact is not present.

B. The Alcatel-Lucent 7750 SR accepts routes containing AS_PATH loops by default.

C. When the CLI command "config>router>bgp# loop-detect discard-route" is used, the Alcatel-Lucent 7750 SR sends a notification to the remote peer and drops the BGP session.

D. In VPRN implementations where the CE-PE protocol is BGP, it is possible for separate sites of the same customer to use the same BGP autonomous system number.

Answer: C

17.Which of the following about the configuration of BGP Site of Origin (SoO) is TRUE?

A. Each PE must implement a policy to apply a unique SoO attribute to the set of routes received from each customer site.

B. A different BGP extended community is used on each PE that connects to a single site.

C. An import policy on the PE rejects a route if the attached SoO matches the configured value.

D. Import and export policies are applied on the PEs under the global BGP context.

Answer: A

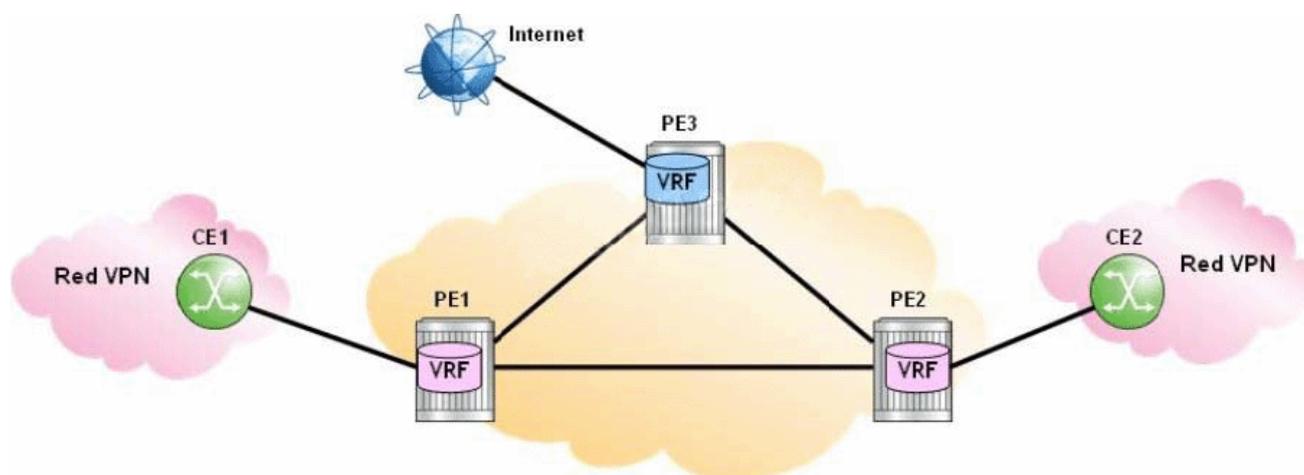18.Click the exhibit.

Exhibit Missing

According to the display, a BGP loop is detected for route 192.168.1.0/27.

On which router is this command executed?

A. CE1

B. CE2

C. PE1

D. PE2

Answer: B

19.Click the exhibit.

PE3 learns Internet routes via its VRF interface to the Internet peering router and stores them in its Internet VRF. CE1 is connected to the Red VPN and requires Internet access via its Red VRF interface. Which of the following statements do not fulfill this requirement?

A. PE1 advertises the Red VPN routes and a default route to PE3.

B. The Internet VRF on PE3 imports the Red VPN routes advertised by PE1.

C. PE1 imports all Internet routes and advertises them to CE1 via the Red VRF.

D. PE3 advertises a default route from its Internet VRF instead of advertising all Internet routes.

Answer: A

20.Click the exhibit.
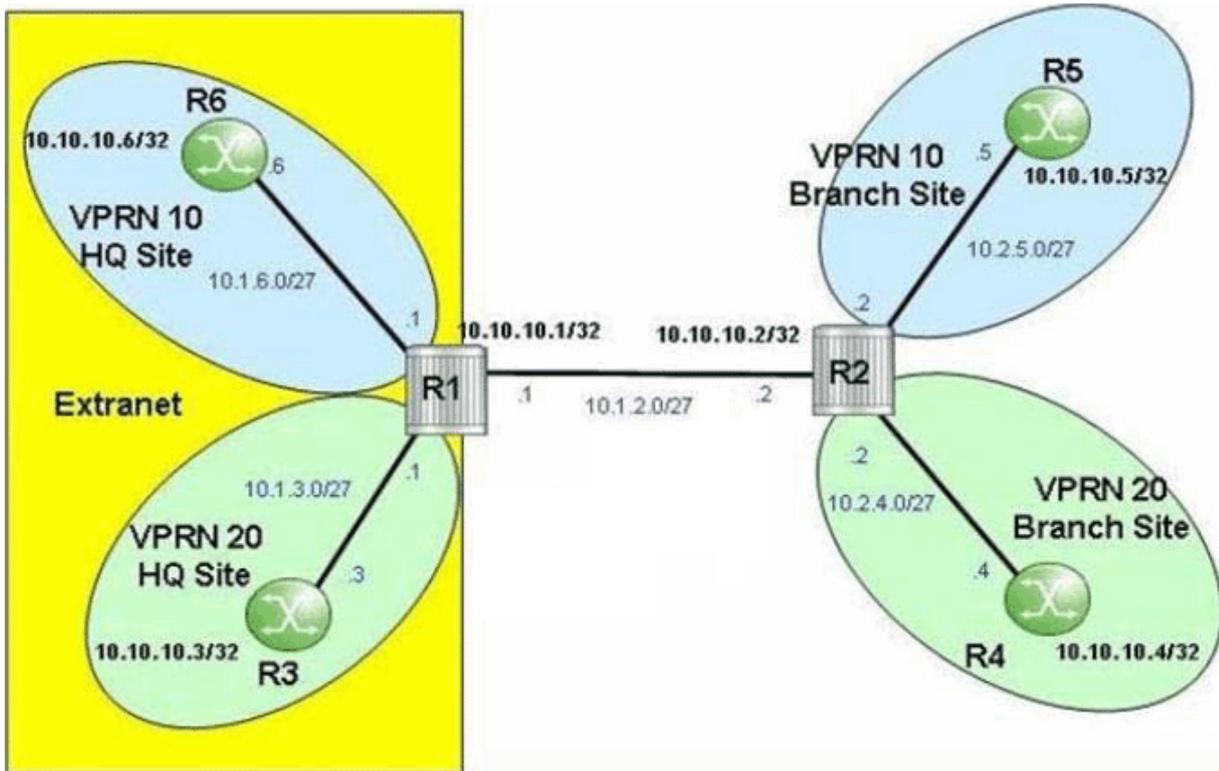
```
community "Blue-Only" members "target:65100:1"
community "Green-Only" members "target:65100:2"
community "Blue-Green" members "target:65100:3"
community "Extranet-VPN-Blue" members "target:65100:1" "target:65100:3"
community "Extranet-VPN-Green" members "target:65100:2" "target:65100:3"
```

The headquarter sites of VPRN 10 and VPRN 20 are part of an extranet VPRN.

Which route targets should be exported under the VPRN 20 service on router R1?

A. Target:65100:2 and target:65100:3

B. Target:65100:1 and target:65100:2

C. Target:65100:1 and target:65100:3

D. Target:65100:1, target:65100:2 and target:65100:3

Answer: A