

Nokia 4A0-106 Exam

Volume: 176 Questions

Question No: 1

Which method does the Alcatel-Lucent 7750 SR use for the allocation of VPRN labels?

- A. One label per route
- B. One label per next-hop
- C. One label per VRF
- D. One label per prefix
- E. One label per tunnel

Answer: C

Question No: 2

In a provider core consisting of 6 PE and 4 P routers, what is the minimum number of BGP sessions required in total for correct operation of VPRN services?

- A. 0
- B. 5
- C. 10
- D. 15
- E. 45

Answer: D

Question No: 3

It is required to prepare the provider core for LDP on an Alcatel-Lucent 7750 SR. Based on the configuration shown below, choose the answer that best describes the given configuration.

- A. This configuration is correct and complete
- B. This configuration is correct except that the system interface must be added

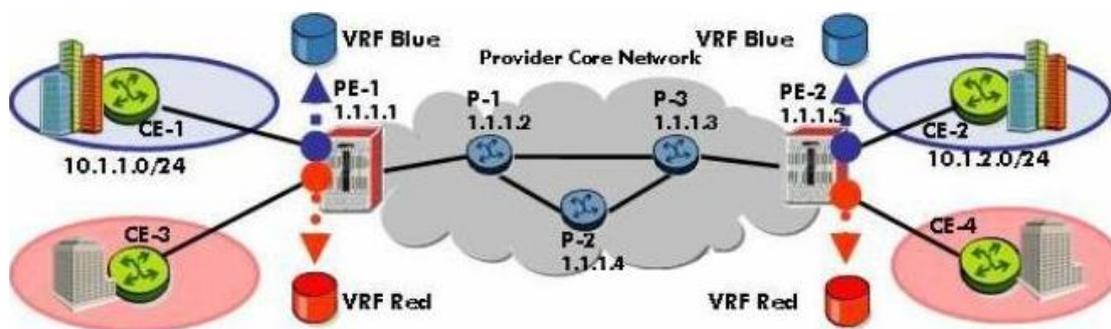
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- C. This configuration is correct except that the interfaces facing the CE routers must be added.
- D. MPLS configuration is not required

Answer: D

Question No: 4

Given the following VPRN topology: The VPRN service 10 is correctly configured and operational with OSPF as the PE to CE routing protocol at both customer sites. The OSPF database on CE-A contains Type 1 LSAs. These routes will appear as what LSA type on CE-B?



```
PE-1# show router bgp routes
=====
BGP Router ID : 10.10.10.75      AS : 65100   Local AS
=====
Legend -
Status codes : u - used, s - suppressed, h - history, d
Origin codes : i - IGP, e - EGP, ? - incomplete, > - best
=====
BGP Routes
=====
Flag  Network                Nexthop
      VPN Label            As-Path
-----
u*>i  65100:10:10.1.2.0/24    1.1.1.5
      131070                No As-Path
```

- A. These routes will not appear on CE-B
- B. Type 1 LSAs
- C. Type 3 LSAs
- D. Type 5 LSAs
- E. Type 7 LSAs

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Answer: D

Question No: 5

In the output from an Alcatel-Lucent 7750 SR shown below, what does the highlighted text represent?

```
A:PE-1# show router bgp routes
=====
BGP Router ID : 10.10.10.10      AS : 65100   Local AS
=====
Legend -
Status codes : u - used, s - suppressed, h - history, d
Origin codes  : i - IGP, e - EGP, ? - incomplete, > - be
=====
BGP Routes
=====
Flag  Network                Nexthop
      VPN Label              As-Path
-----
u*>?  65100:10:10.1.2.0/24      10.10.10.50
      131071                 No As-Path

u*>?  65100:10:10.10.10.78/32  10.10.10.50
      131071                 No As-Path

u*>?  65100:10:10.32.1.0/24    10.10.10.50
      131071                 No As-Path
```

- A. The LDP identifier
- B. The Service identifier
- C. The Route Target
- D. The Route Distinguisher
- E. The tunnel label

Answer: D

Question No: 6

Which of the following statements best describes the output from an Alcatel-Lucent 7750 SR shown below?

- A. The As-Path is not present as it was removed with the s-override configuration command

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- B. The As-Path is not present as it was removed with the o-as-path configuration command
- C. The As-Path is not present as a policy was configured to set it to the null value
- D. The As-Path is not present as VPN-IPv4 routes do not propagate the IPv4 As-Path BGP attribute

Answer: C

Question No: 7

When configuring BGP as the PE-CE protocol on an Alcatel-Lucent 7750 SR, the configuration on the CE is done under the _____ context and the PE configuration is under the _____ context.

```
A:CE 1# show router bgp routes
-----
BGP Router ID : 10.10.10.76      AS : 65200   Local AS
-----
Legend -
Status codes : u - used, s - suppressed, h - history, d
Origin codes : i - IGP, e - EGP, ? - incomplete, > - be
-----
BGP Routes
-----
Flag   Network           Nexthop
      VPN Label       As-Path
-----
u*>?  10.1.2.0/24       10.16.1.1
                        65100 65100
u*>?  10.10.10.78/32    10.16.1.1
                        65100 65100
u*>i  10.32.1.0/24      10.16.1.1
                        65100
```

- A. Global, router
- B. Router, router
- C. Service, router
- D. Router, service
- E. Service, service
- F. Router, global

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Answer: D

Question No: 8

An advantage of using BGP as the PE-CE protocol is that route policies are no longer required to control the exchange of routes from BGP to MP-BGP.

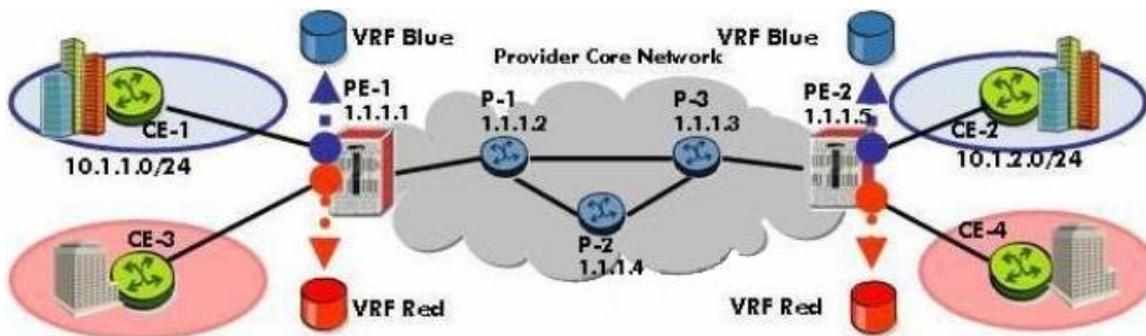
A. True

B. False

Answer: B

Question No: 9

Which of the following commands on an Alcatel-Lucent 7750 SR will verify connectivity for a VPRN service <service-id> when issued from the PE?



A. oam vprn-ping <service-id> source <source-ip> destination <destination-ip>

B. oam <service-id> vprn-ping source <source-ip> destination <destination-ip>

C. vprn-ping router <service-id> <destination-ip>

D. Ping <destination-ip> source <source-ip>

Answer: A

Question No: 10

Which command should be used on an Alcatel-Lucent 7750 SR acting as the PE, to view the table containing the BGP routes received from the remote sites?

A. Show router bgp routes

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- B. Show router bgp routes address-family vpn-ipv4
- C. Show router bgp routes <service-id>
- D. Show router <service-id> bgp routes

Answer: A

Question No: 11

When would it be appropriate to use the as-override command?

```
FE-1# show router 1 bgp neighbor
-----
Peer : 10.16.1.2          Group : BGP-neighbors
-----
Peer AS      : 65200          Peer Port
Peer Address : 10.16.1.2
Local AS     : 65100          Local Port
Local Address: 10.16.1.1
Peer Type    : External
State       : Established    Last State
Local Family : IPv4          Remote Family
```

- A. When sites of different VPRN customers use the same BGP AS number
- B. When sites of the same VPRN customer use the same BGP AS number
- C. When sites of different VPRN customers use different BGP AS numbers
- D. When sites of the same VPRN customer use different BGP AS numbers
- E. When the customer site AS number is the same as the provider AS number

Answer: B

Question No: 12

Which of the following statements best describes the output from an Alcatel-Lucent 7750 SR shown below?

- A. The BGP session from PE to P is not operational
- B. The BGP session between PEs is operational

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- C. The BGP session between PE and CE is not operational
- D. The BGP session from PE to CE is operational
- E. The BGP session between PEs is not operational

Answer: D

Question No: 13

When a routing protocol is configured as the PE-CE protocol at one site of a customer VPRN, the same routing protocol must be configured as the PE-CE protocol at all other sites of the same customer VPRN.

- A. True
- B. False

Answer: B

Question No: 14

When an Alcatel-Lucent 7750 SR receives a BGP update containing an AS-Path loop, what is the default action?

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```
=====
Service Basic Information
=====
Service Id       : 3                               Vpn Id
Service Type    : VPRN
Description     : Customer VPRN Service
Customer Id     : 30
Last Status Change: 05/26/2006 15:59:51
Last Mgmt Change : 05/27/2006 08:29:20
Admin State     : Up                               Oper State

Route Dist.     : 65100:30
AS Number       : None                               Router Id
ECMP            : Enabled                           ECMP Max Routes
Max Routes      : No Limit                           Auto Bind
Vrf Target      : target:65100:30
Vrf Import      : None
Vrf Export      : None

SAP Count       : 1                               SDP Bind Count
=====
Service Access & Destination Points
=====
Identifier              Type           AdmMTU  Op
-----
sap:1/1/1              null          1514    15
sdp:1:1 3(1.1.1.5)    n/a          0       15
=====
```

- A. The update is accepted and the route installed in the route table.
- B. The update is accepted but the route will not be installed in the route table
- C. The update is rejected
- D. The peer session is dropped

Answer: A

Question No: 15

Which command is used to generate the output from an Alcatel-Lucent 7750 SR shown below?

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```
PE-1# configure service VERN 1
PE-1>config>service>VERN# shutdown
PE-1>config>service>VERN# maximum-routes 40
PE-1>config>service>VERN# no shutdown
PE-1>config>service>VERN# exit all
```

- A. Show service 3
- B. Show service id 3
- C. Show service 3 base
- D. Show service id 3 base
- E. Show service 3 detail
- F. Show service id 3 detail

Answer: D

Question No: 16

Choose the best answer to describe the result of the configuration of an Alcatel-Lucent 7750 SR shown below?

- A. The PE will install a maximum of 40 prefixes into the customer vrf and generate a log message when 40 routes are received
- B. The PE will install a maximum of 40 prefixes into the customer vrf, and generate a log message both when 30 and 41 routes are received
- C. The PE will install a maximum of 40 prefixes into the customer vrf, generate a log message when 10 routes are received and disable learning of new routes at 41
- D. The PE will install a maximum of 40 prefixes into the customer vrf, generate a log message when 10 routes are received and drop the connection at 41
- E. The PE will install a maximum of 40 prefixes into the customer vrf, generate a log message when 4 routes are received and disable learning of new routes at 41

Answer: E

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Question No: 17

You are configuring spoke SDP termination of a VPLS service on a VPRN interface on an AlcatelLucent 7750 SR. The spoke SDP is running over a NULL encapsulated network port. The best practice is to set the VPRN interface p-mtu equal to what value over a NULL encapsulated network port.

- A. The SDP path-MTU minus 14
- B. The LMTU found in how router ldp bindings on the VPLS side of the spoke SDP
- C. The configured service-mtu of the VPLS service
- D. The LMTU found in how router ldp bindings on the VPLS side of the spoke SDP minus14
- E. The SDP path-MTU

Answer: B

Question No: 18

What is the minimum number of Route Distinguishers required to implement an overlapping VPRN involving 5 different customers?

- A. 1
- B. 3
- C. 5
- D. 7
- E. 10

Answer: C

Question No: 19

Which of the following best describes the goal of an Extranet VPRN?

- A. Allow routes to be exchanged between all or selected sites of one VPRN and all or selected sites of a second VPRN
- B. Allow the service provider to provide multiple VPRNs with Internet access