JN0-660 Q&As

Service Provider Routing and Switching, Professional

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QUESTION 1

An OSPF network has been designed with multiple areas to improve scalability. Which two statements are true? (Choose two.)

A. Each router in the OSPF network runs the shortest-path-first algorithm to determine paths through the network.

B. The Area Border Router for each area runs the shortest-path-first algorithm and floods its results through the area.

C. Each area must have at least one link connecting it to each of the other areas of the OSPF network.

D. OSPF provides loop-free routing within an OSPF routing domain, but does not guarantee symmetrical routing.

Correct Answer: AD

QUESTION 2

Click the Exhibit button.

```
[edit]
user@R4# run show isis database
IS-IS level 1 link-state database:
LSP ID                 Sequence  Checksum  Lifetime  Attributes
R4.00-00                   0x4    0xe888      1154  L1 L2
R3.00-00                   0x3    0x2ce1      1150  L1 L2
R3.02-00                   0x2    0x46c7      1150  L1 L2
  3 LSPs

IS-IS level 2 link-state database:
LSP ID                 Sequence  Checksum  Lifetime  Attributes
R4.00-00                   0x5    0xee7d      1154  L1 L2
R3.00-00                   0x4    0xed1f      1150  L1 L2
R3.02-00                   0x3    0x44c8      1151  L1 L2
  3 LSPs

[edit]
user@R4#
```

Based on the output shown in the exhibit, which statement is correct?

A. R3 is the designated intermediate system.

B. R3 is the backup designated intermediate system.

C. R3 has been configured with an export policy and is announcing external routes to IS-IS neighbors.

D. R3 is using both IPv4 and IPv6 resulting in two pseudonodes.

Correct Answer: A

QUESTION 3

In which two ways does VPLS populate the MAC table? (Choose two.)

A. dynamically using BGP

B. dynamically using the source MAC address on received frames

C. dynamically using LDP

D. statically using CLI

Correct Answer: BD

QUESTION 4

-- Exhibit

[edit protocols ospf area 0.0.0.2]

user@router# show

area-range 0.0.0.0/1 restrict;

interface ge-0/0/1.0;

-- Exhibit -

Click the Exhibit button.

You have an OSPF area configured as shown in the exhibit.

Which two statements are true? (Choose two.)

A. The 30.0.0.0/8 prefix will not be advertised to Area 0 as a Type 3 LSA.

B. The 200.0.0.0/8 prefix will not be advertised to Area 0 as a Type 3 LSA.

C. To be effective, the configuration must be used on an ASBR router.

D. To be effective, the configuration must be used on an ABR router.

Correct Answer: AD

QUESTION 5

Refer to the exhibit.

```
[edit class-of-service]
user@router# show
drop-profiles {
    moderate-profile {
        fill-level 15 drop-probability 25;
        fill-level 45 drop-probability 50;
        fill-level 80 drop-probability 75;
        fill-level 95 drop-probability 100;
    }
}
```

Referring to the applied drop profile shown in the exhibit, if the buffer is 30 percent full, what is the probability of traffic being dropped?

A. 25 percent

B. 30 percent

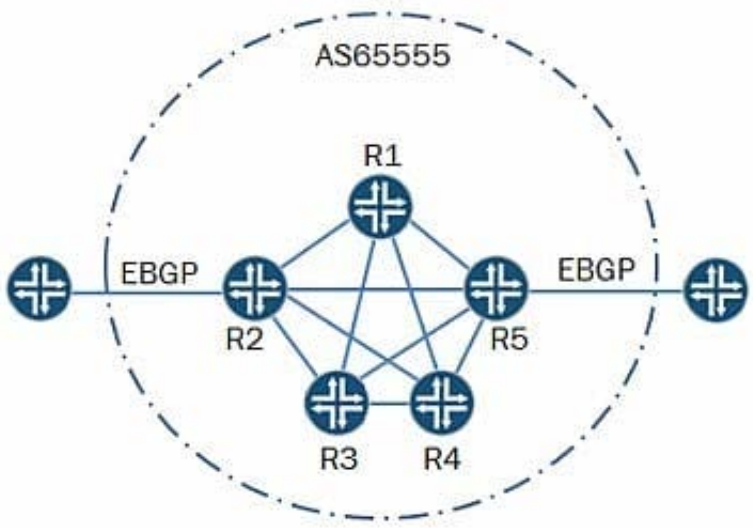
C. 50 percent

D. 75 percent

Correct Answer: A

QUESTION 6

-- Exhibit



-- Exhibit -

Click the Exhibit button.

Referring to the exhibit, routers R1 through R5 exist in a fully-meshed IBGP group. You want the routes received through EBGP on R1 to be advertised to the EBGP peer connected to R5. You want the routes received through EBGP on R5 to be installed on R1; however, you do not want the those routes to be advertised to the EBGP peer connected to R1.

Which two actions will accomplish this task? (Choose two.)

A. Implement an export policy on R5 to add the well-known no-export community to the EBGP routes.

B. Implement an export policy on R5 to add the well-known no-advertise community to the EBGP routes.

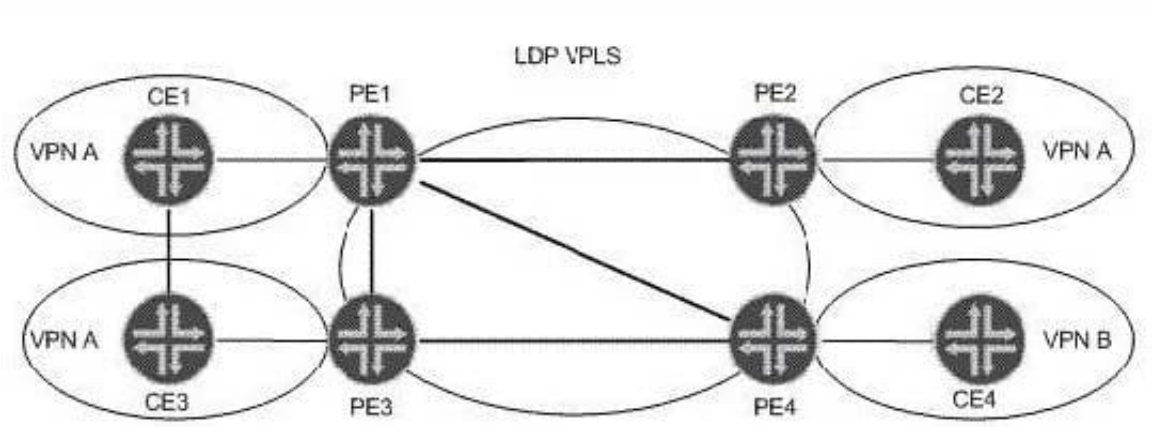
C. Implement a route reflector group and configure the no-client-reflect parameter on the route reflector.

D. Implement an import policy on R1 to add the well-known no-export community to the EBGP routes.

Correct Answer: AB

QUESTION 7

Click the Exhibit button.



Your IT manager asks you to describe a benefit of migrating from LDP VPLS towards BGP VPLS considering the operational network shown in the exhibit. What can you tell your manager?

A. Using BGP signaling improves scaling, because a full mesh of transport LSPs is not needed.

B. MAC addresses are learned through BGP instead of LDP, which improves scaling.

C. Ingress PE replication can be reduced, because BGP VPLS supports P2MP LSPs.

D. Configuration overhead is reduced when adding new sites or new VPNs.

Correct Answer: D

QUESTION 8

You are hired at an ISP and your new employer asks you to become familiar with the routing policy. The 42 +.*[21112]$ regular expression is in one of the policies. Which three AS paths match the regex statement? (Choose three.)

A. 42 42 42 42 6

B. 42 42 42 27 21

C. 42 42 42 42 12

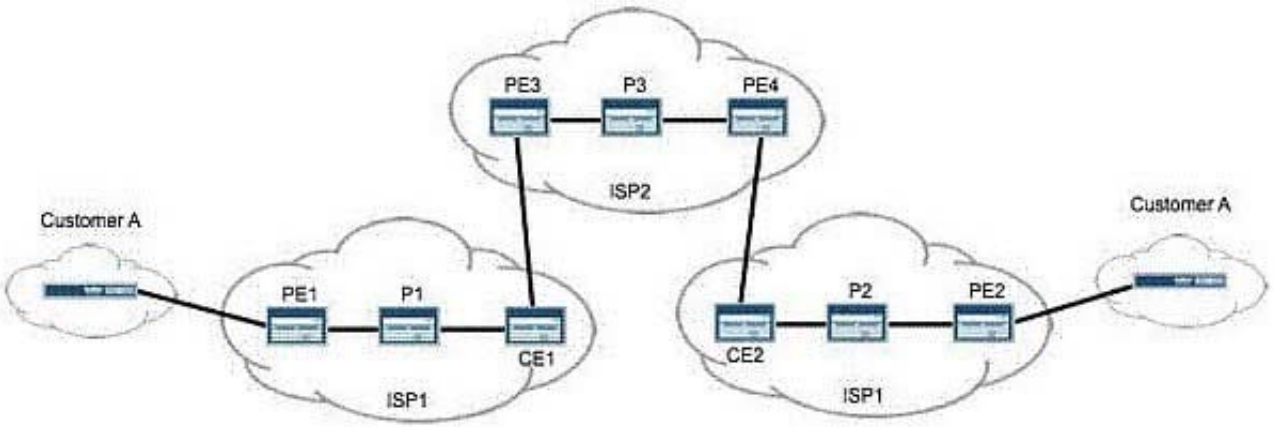
D. 42 69 2112 112

E. 42 69 212112

Correct Answer: BCE

QUESTION 9

Click the Exhibit button.



Customer A wants a Layer 3 VPN between their two sites. To support this, you purchase a carrier-ofcarriers solution from ISP2. Referring to the topology in the exhibit, how many labels does PE1 push onto data packets destined for PE2?

A. 1

B. 2

C. 3

D. 4

Correct Answer: C

QUESTION 10

Refer to the exhibit.

```
user@router# show
routing-options {
    multicast {
        rpf-check-policy [ disable-from-group disable-from-source ];
    }
}
policy-options {
    policy-statement disable-from-group {
        term first {
            from {
                route-filter 228.0.0.0/8 orlonger;
            }
            then reject;
        }
    }
    policy-statement disable-from-source {
        term first {
            from {
                source-address-filter 192.168.25.6/32 exact;
            }
            then reject;
```

```
+ = Active Route, - = Last Active, * = Both

0.0.0.0/0              *[BGP/170] 1w5d 22:33:28, localpref 100, from 192.168.177.7
                          AS path: 65330 I
                        > to 192.168.177.70 via xe-4/0/0.0
```

Multicast traffic from 192.168.25.6 to 228.0.0.0/8 is entering the router on xe-3ft)/0. Which statement is correct?

A. The reverse-path forwarding lookup will succeed without these policies because of a default route.

B. The traffic to 228.0.0.0/3 will be rejected.

C. The traffic from 192.168.25.6 will be rejected.

D. The reverse-path forwarding lookup will fail without these policies.

Correct Answer: D

QUESTION 11

Click the Exhibit button.

```
user@router# show
traffic-control-profiles {
    L3-unit-profile {
        scheduler-map "sched-map-example;";
        shaping-rate 30m;
        guaranteed-rate 20m;
    }
}
interfaces {
    ge-0/1/1 {
        output-traffic-control-profile "l1-port-profile;";
        unit 100 {
            output-traffic-control-profile L3-unit-profile;
        }
    }
}
```

What would happen if the guaranteed-rate command is removed from the configuration shown in the exhibit?

A. The logical interface gets a minimal bandwidth reservation.

B. The minimum-rate command should be configured instead.

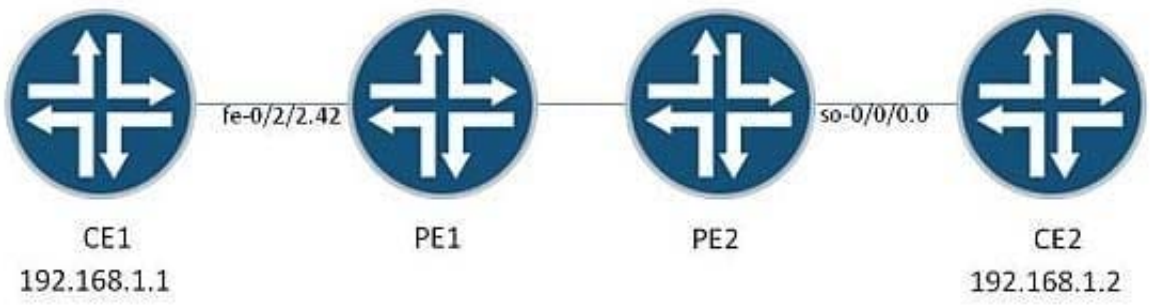
C. The logical interface receives no bandwidth constraints.

D. The transmit-rate command should be configured instead.

Correct Answer: A

QUESTION 12

-- Exhibit



-- Exhibit -

Click the Exhibit button.

Referring to the exhibit, you see the proper BGP, MPLS, and routing instance configuration for PE1 and PE2.

Which configuration on PE1 will allow CE1 to communicate with CE2 over a Layer 2 VPN, assuming PE2 has PPP TCC encapsulation on so-0/0/0.0?

A. [edit interfaces fe-0/2/2 unit 42] family tcc { proxy { inet-address 192.168.1.2; } remote { inet-address 192.168.1.1; } }

B. [edit interfaces fe-0/2/2 unit 42] family tcc { remote { inet-address 192.168.1.2; } }

C. [edit interfaces fe-0/2/2 unit 42] family tcc { proxy { inet-address 192.168.1.1; } }

D. [edit interfaces fe-0/2/2 unit 42] family tcc { proxy { inet-address 192.168.1.1;

} remote { inet-address 192.168.1.2; } }

Correct Answer: A

QUESTION 13

Click the Exhibit button.

```
user@router# run show class-of-service rewrite-rule name traffic-class
Rewrite rule: traffic-class, Code point type: exp, Index: 58855
  Forwarding class                Loss priority       Code point
  best-effort                     low                 000
  best-effort                     high                001
  expedited-forwarding            low                 111
  expedited-forwarding            high                011
  assured-forwarding              low                 100
  assured-forwarding              high                101
  network-control                 low                 110
  network-control                 high                111
```

Your router should be configured with a rewrite rule which alters the default behavior of expedited-forwarding as shown in the exhibit. Which configuration is correct?

A.
```
[edit]
user@router# show class-of-service
rewrite-rules {
    exp traffic-class {
        import default;
        forwarding-class expedited-forwarding {
            loss-priority low code-point 111;
        }
    }
}
```

B.
```
[edit]
user@router# show class-of-service
rewrite rules {
    exp traffic-class {
        import rewrite-rule best-effort;
        import rewrite-rule expedited-forwarding;
        import rewrite-rule assured-forwarding;
        import rewrite-rule network-control;
        forwarding-class expedited-forwarding {
            loss-priority low code-point 111;
        }
    }
}
```

C.
```
[edit]
user@router# show class-of-service
rewrite-rules {
    exp traffic-class {
        import best-effort;
        import assured-forwarding;
        import network-control;
        forwarding-class expedited-forwarding {
            loss-priority low code-point 111;
        }
    }
}
```

D.
```
[edit]
user@router# show class-of-service
rewrite-rules {
    exp traffic-class {
        import best-effort;
        import assured-forwarding;
        import expedited-forwarding;
        import network-control;
        }
    }
}
```

A. Option A

B. Option B

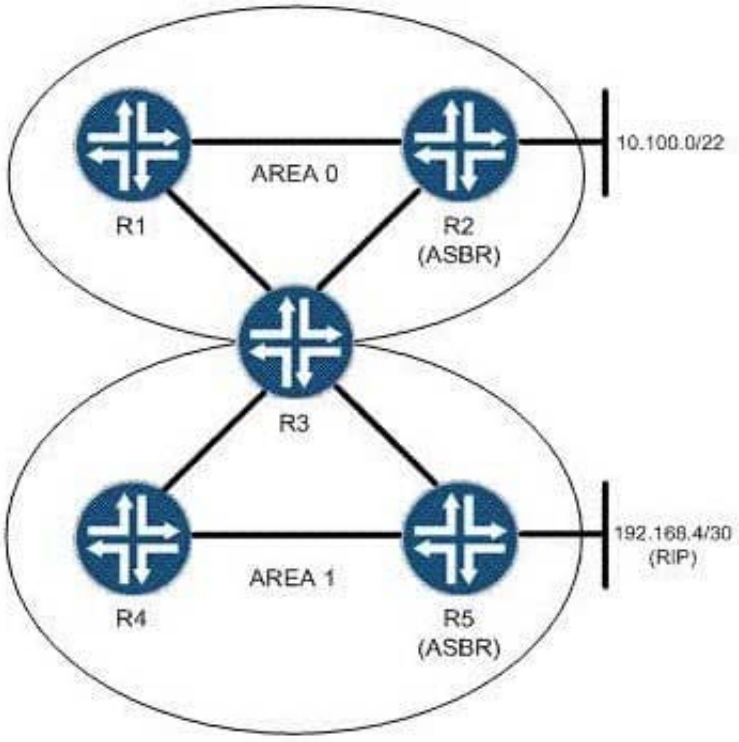
C. Option C

D. Option D

Correct Answer: A

QUESTION 14

Click the Exhibit button.



Based on the topology shown in the exhibit, which two configuration statements must be applied on R2 so that it announces the 10.100/22 network to its OSPF neighbors? (Choose two.)

A. [edit policy-options policy-statement announce] user@router# set teem 1 from route-filter 10.100.0.0/22 exact accept

B. [edit policy-options policy-statement announce] user@router# set term 1 from 10.100.0.0/22 exact accept

C. [edit] user@router# set protocols ospf export announce

D. [edit] user@router# set protocols ospf area 0 export announce

Correct Answer: AC

QUESTION 15

You are asked to design a Layer 2 VPN service between service provider networks that needs Ethernet transport capabilities. The VPN should support two or three endpoints. Which Layer 2 VPN technology should you propose?

A. LDP-signaled VPLS

B. BGP-signaled VPLS, using the RFC 4448 Layer 2 frame format

C. LDP Layer 2 circuit, using the RFC 4448 Layer 2 frame format

D. BGP Layer 2 VPN

Correct Answer: B