350-001^{Q&As}

CCIE Routing and Switching Written

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QUESTION 1

Which two options does Cisco PfR use to control the entrance link selection with inbound optimization? (Choose two.)

A. Prepend extra AS hops to the BGP prefix.

B. Advertise more specific BGP prefixes (longer mask).

C. Add (prepend) one or more communities to the prefix that is advertised by BGP.
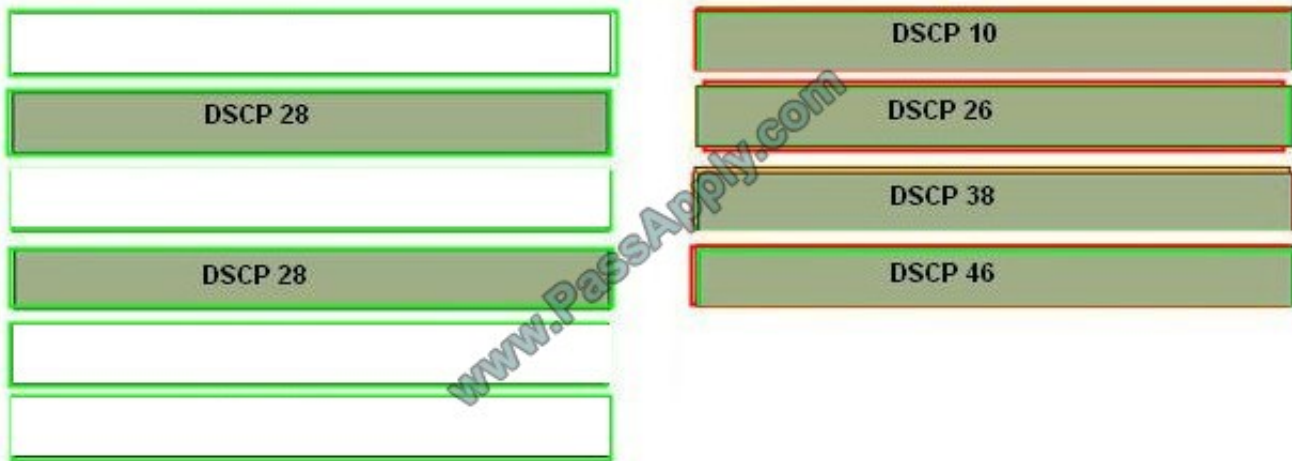
D. Have BGP dampen the prefix.

Correct Answer: AC

QUESTION 2

Drag the DSCP values on the left to the correct classes on the right. Not all DSCP values will be used.

Select and Place:

Correct Answer:

	DSCP 10	
DSCP 28	DSCP 26	
	DSCP 38	
DSCP 28	DSCP 46	

QUESTION 3

Refer to the exhibit. Which statement is correct?

```
C1#show ip ospf border-routers

OSPF Process 100 internal Routing Table

Codes: i - Intra-area route, I - Inter-area route

i 11.200.1.1 [128] via 11.1.4.4, Serial2/0, ABR/ASBR, Area 0, SPF 14
i 11.100.1.2 [128] via 11.1.5.10, Serial3/0, ABR/ASBR, Area 0, SPF 14
```
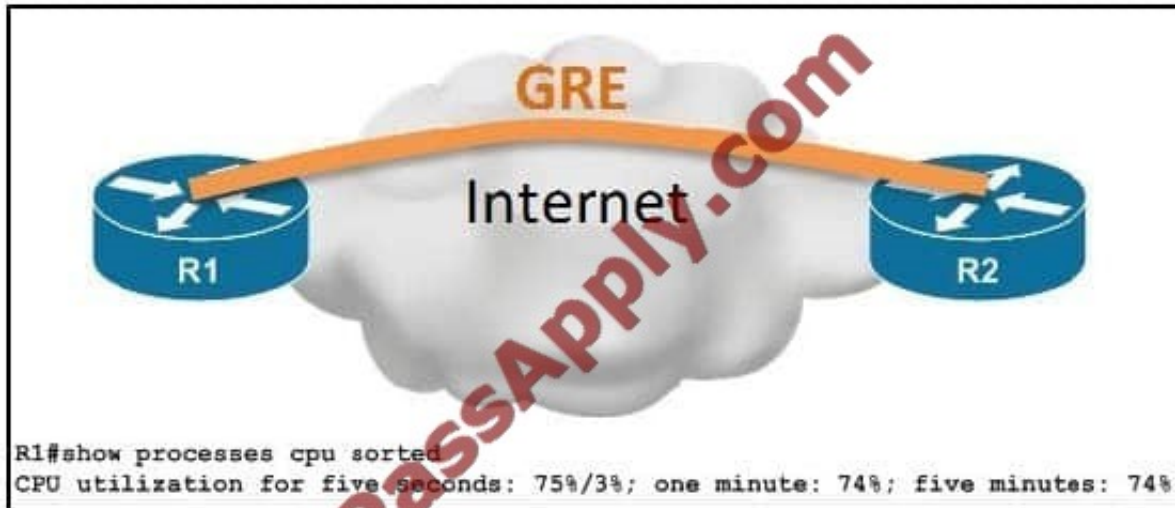
A. The priority of both OSPF border routers is 128.

B. Both routers are border routers for areas 128 and 0.

C. The OSPF cost to both border routers is 128.

D. The age of both border routers is 128.

Correct Answer: C

QUESTION 4

Refer to the exhibit. A GRE tunnel between R1 and R2 has been configured over an Internet connection. As soon as traffic is sent over the tunnel, high CPU utilization is observed on R1. Reducing the traffic shows a reduction in CPU utilization.

What could be a possible cause for the high CPU utilization?

```
R1#show processes cpu sorted
CPU utilization for five seconds: 75%/3%; one minute: 74%; five minutes: 74%
```

A. The BGP process is processing the complete Internet routing table.

B. An MTU issue causes GRE packets to be fragmented.

C. A GRE-based DDoS attack is overloading the router control plane.

D. All GRE packets are always process switched.

Correct Answer: B

QUESTION 5

Which two EIGRP options will limit a query domain? (Choose two.)

A. configuring EIGRP stubs

B. configuring a second EIGRP AS and redistributing

C. configuring summary addresses

D. configuring an offset-list

E. configuring a prefix-list

F. configuring unicast neighbors

Correct Answer: AC

QUESTION 6

Refer to the exhibit. Which IGMPv2 message is displayed in the output of the packet capture?

```
Internet Protocol, Src Addr: 192.168.xxx.xxx (192.168.xxx.xxx), Dst Addr: 239.255.255.250 (239.255.255.250)
    Version: 4
    Header length: 24 bytes
    Differentiated Services Field: 0x00 (DSCP 0x00: Default; ECN: 0x00)
        0000 00.. = Differentiated Services Codepoint: Default (0x00)
        .... ..0. = ECN-Capable Transport (ECT): 0
        .... ...0 = ECN-CE: 0
    Total Length: 32
    Identification: 0x58dd (22749)
    Flags: 0x00
        0... = Reserved bit: Not set
        .0.. = Don't fragment: Not set
        ..0. = More fragments: Not set
    Fragment offset: 0
    Time to live: 1
    Protocol: IGMP (0x02)
    Header checksum: 0x10f4 (correct)
    Source: 192.168.xxx.xxx (192.168.xxx.xxx)
    Destination: 239.255.255.250 (239.255.255.250)
    Options: (4 bytes)
        Router Alert: Every router examines packet
```

A. General Query

B. Membership Report

C. Membership Query

D. Membership Delay

Correct Answer: B

QUESTION 7

Which description of the following is true according to the information shown in the figure?
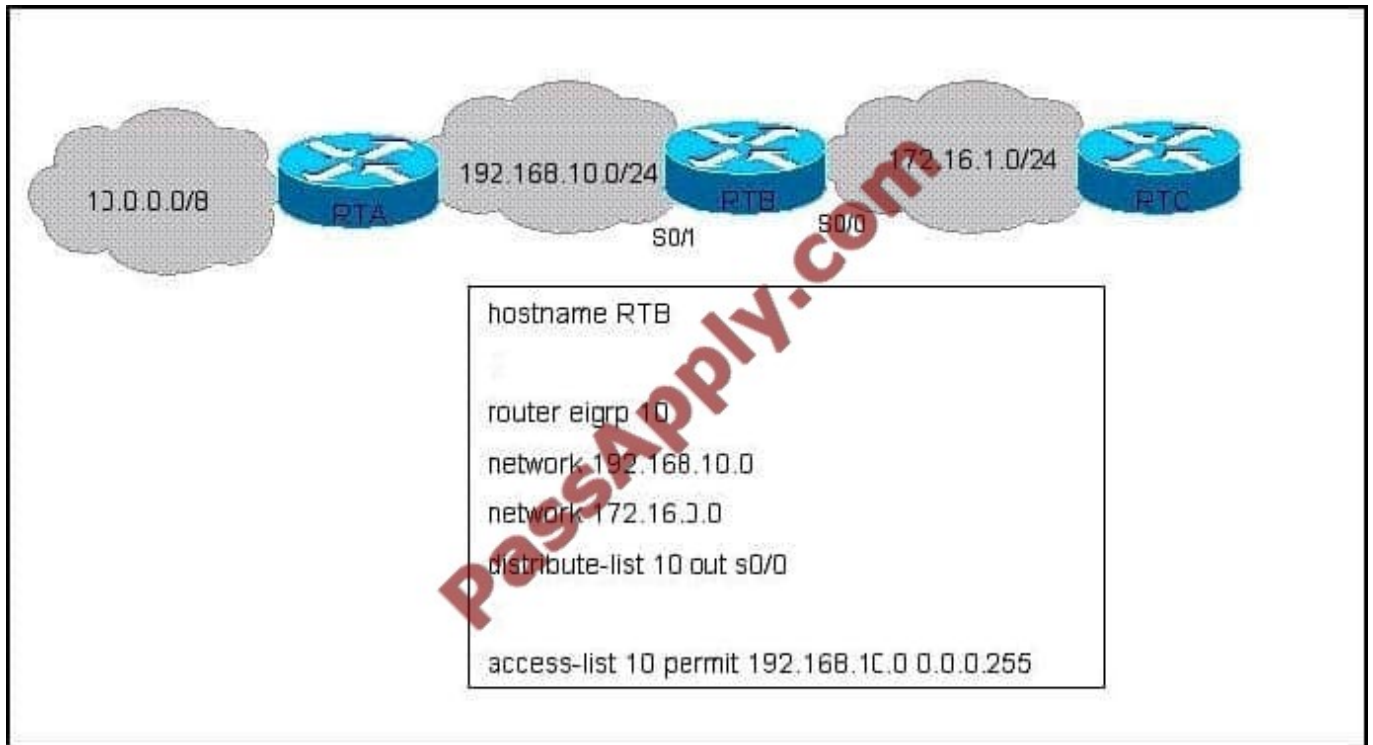
A. RTC will not have the 192.168.10.0 network in its routing table.

B. RTC will not have the 10.0.0.0 network in its routing table.

C. RTB will not have the 10.0.0.0 network in its routing table.

D. RTB and RTC will not have the 10.0.0.0 network in their routing tables.

Correct Answer: B

QUESTION 8

Where should frame-relay traffic shaping be applied?

A. on the physical interface

B. on the subinterface

C. under the frame-relay map class

D. on any of the above

Correct Answer: A

QUESTION 9

What protocol provides a mechanism to tranparently intercepts and redirects CIFS traffic from a client to a local Cisco Wida Area Application engine?

A. File Transport Protocol (FTP)

B. Hot Standby Routing Protocol (HSRP)

C. Virtual Router Redundancy Protocol (VRRP)

D. Web Cache Communication Protocol (WCCP)

Correct Answer: D

QUESTION 10

Refer to the exhibit.

```
R100#show glbp
Ethernet0/0 - Group 150
  State is Active
  Virtual IP address is 10.1.1.150
  Preemption enabled, min delay 0 sec
  Active is local
  Standby is 10.1.1.101, priority 100 (expires in 8.128 sec)
  Priority 150 (configured)
  Weighting 50 (configured 50), thresholds: lower 1, upper 50
  Load balancing: round-robin
  Group members:
    aabb.cc00.6400 (10.1.1.100) local
    aabb.cc00.6500 (10.1.1.101)
  There are 2 forwarders (1 active)
  Forwarder 1
    State is Active
      1 state change, last state change 00:07:56
    Redirection enabled
    Preemption enabled, min delay 30 sec
    Active is local, weighting 10
  Forwarder 2
    State is Listen
    Redirection enabled, 599.360 sec remaining (maximum 600 sec)
    Time to live: 14399.360 sec (maximum 14400 sec)
    Active is 10.1.1.101 (primary), weighting 30 (expires in 10.432 sec)
```

How will traffic be split between the routers, assuming that there are many hosts on this subnet?

A. All traffic will be sent to the primary router (10.1.1.100).

B. Traffic will be split equally between the two routers (10.1.1.100 and 10.1.1.101).

C. Traffic will be split 25% (10.1.1.101) / 75% (10.1.1.100) between the two routers.

D. Traffic will be split 75% (10.1.1.101) / 25% (10.1.1.100) between the two routers.

Correct Answer: D

QUESTION 11

Refer to the exhibit. Which of these is applied to the Bearer class?

```
 |
class-map match-all Signal
  match ip precedence 3
class-map match-any System
  match access-group name Security
  match ip precedence 6
  match ip precedence 7
class-map match-all Bearer
  match ip precedence 5
 |
 |
policy-map ProviderOut
  class Bearer
   priority 48
  class Signal
   bandwidth 15
  class System
   bandwidth 15
  class class-default
   fair-queue
   random-detect
   shape average 512000
 |
interface Ethernet0/1
 description Provider Interface
 ip address dhcp client-id Ethernet0/1
 ip access-group 111 in
 ip nat outside
 full-duplex
 no cdp enable
 service-policy output ProviderOut
 |
```

A. wred

B. traffic shaping

C. packet marking

D. packet classification

E. FIFO queuing within the class

Correct Answer: E

QUESTION 12

Refer to the exhibit.

```
hostname SW1
!
ip subnet-zero
!
ip routing
!
spanning-tree extend system-id
!
interface FastEthernet0/1
 no ip address
!
!
!
interface FastEthernet0/48
 description To Internet_Router
 no switchport
 ip address 200.1.1.1 255.255.255.252
!
interface Vlan1
 no ip address
 shutdown
!
interface Vlan2
 description USER_VLAN
 ip address 10.1.2.1 255.255.255.0
!
interface Vlan3
 description SERVER_VLAN
 ip address 10.1.3.1 255.255.255.0
!
ip classless
!
ip route 0.0.0.0 0.0.0.0 FastEthernet0/48
!
line con 0
line vty 5 15
!
end
```

While troubleshooting performance issues on your network, you notice that CPU utilization on your Layer 3 Internet switch is very high. What can be done to solve this issue?

A. Use an SVI instead of a routed port to connect to the Internet router.

B. This is a capacity issue. Replace the switch with a high-performance Layer 3 switch.

C. Point the default static route to an IP address instead of a physical interface.

D. Configure CoPP on the Layer 3 switch.

Correct Answer: C

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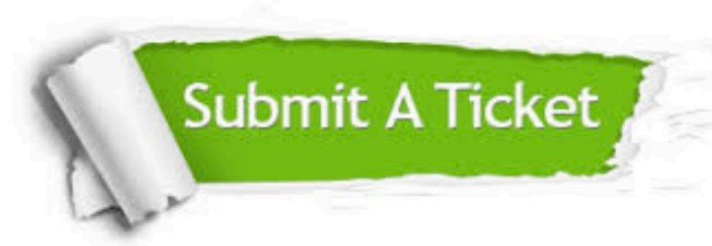
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