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QUESTION 1

Which technology enables the addition of new wavelengths in a fiber-optic network?

A. IPoDWDM

B. CWDM

C. DWDM

D. ROADM

Correct Answer: C

Explanation: Wavelength-division multiplexing (WDM) is a technology which multiplexes a number of optical carrier signals onto a single fiber [1], using different wavelengths of light to carry different signals. This allows for a greater capacity for data transfer and enables the addition of new wavelengths in a fiber-optic network

QUESTION 2

Refer to the exhibit.

```
R1# show ip bgp summary
Neighbor        V  AS    MsgRcvd  MsgSent  TblVer  InQ  OutQ  Up/Down  State/PfxRcd
11.11.11.11  4  5400   0        0        0       0    0     never    Active

R1
interface Loopback0
    ip address 2.2.2.2 255.255.255.255
interface Ethernet1/0
    ip address 11.11.11.11  255.255.255.0
router bgp 5400
    neighbor 11.11.11.12 remote-as 5400
    neighbor 11.11.11.12 update-source Loopback0
ip route 1.1.1.1 255.255.255.255 11.11.11.12

R2
interface Loopback0
    ip address 1.1.1.1 255.255.255.255
interface Ethernet1/0
    ip address 11.11.11.12 255.255.255.0
router bgp 5400
    neighbor 11.11.11.11 remote-as 5400
    neighbor 11.11.11.11 update-source Loopback0
ip route 2.2.2.2 255.255.255.255 11.11.11.11
```

Router R1 is reporting that its BGP neighbor adjacency to router R2 is down, but its state is Active as shown. Which configuration must be applied to routers R1 and R2 to fix the problem?

A. R1

router bgp 5400

 neighbor 11.11.11.11 remote-as 5400

 neighbor 11.11.11.11 update-source Loopback0

R2

router bgp 5400

 neighbor 11.11.11.12 remote-as 5400

 neighbor 11.11.11.12 update-source Loopback0

B. R1

router bgp 5400

 neighbor 2.2.2.2 remote-as 5400

 neighbor 2.2.2.2 update-source Loopback0

R2

router bgp 5400

 neighbor 1.1.1.1 remote-as 5400

 neighbor 1.1.1.1 update-source Loopback0

C. R1

router bgp 5400

 neighbor 2.2.2.2 remote-as 5400

R2

router bgp 5400

 neighbor 1.1.1.1 remote-as 5400

D. R1

router bgp 5400

 neighbor 1.1.1.1 remote-as 5400

 neighbor 1.1.1.1 update-source Loopback0

R2

router bgp 5400

 neighbor 2.2.2.2 remote-as 5400

 neighbor 2.2.2.2 update-source Loopback0

Correct Answer: D

QUESTION 3

Which configuration modifies Local Packet Transport Services hardware policies?

A.
```
configure
lpts police
exception invalid rate 400
protocol cdp rate 50
protocol arp rate 5000
```

B.
```
configure
 lpts pifib police hardware
 flow ospf unicast default rate 200
 flow bgp configured rate 200
 flow bgp default rate 100
 !
 lpts pifib police hardware location 0/2
 flow ospf unicast default rate 100
 flow bgp configured rate 300
 flow icmp application rate 100
 flow icmp default rate 100
 !
```

C.
```
configure
 lpts pifib hardware police
 flow ospf unicast default rate 200
 flow bgp configured rate 200
 flow bgp default rate 100
 !
 lpts pifib hardware police location 0/2/CPU0
 flow ospf unicast default rate 100
 flow bgp configured rate 300
 flow icmp application rate 100
 flow icmp default rate 100
 !
```

D.
```
configure
 lpts punt police location 0/0/CPU0
 exception invalid rate 400
 protocol cdp rate 50
 protocol arp rate 5000
 protocol ipv4 options rate 100
 exception icmp rate 200
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

Reference: https://www.cisco.com/c/en/us/td/docs/routers/crs/software/crs_r4-1/addr_serv/command/reference/b_ipaddr _cr41crs/b_ipaddr_cr41crs_chapter_0111.html#wp1754734006

QUESTION 4

DRAG DROP

Drag and drop the technologies from the left onto the correct definitions on the right.

Select and Place:

Answer Area

DWDM	required for routes and switches to have DWDM and ITU-T G.709 implemented
ROADM	used to amplify an optical signal
IPoDWDM	used to drop certain lambdas within a DWDM ring at a specific location
EDFA	increases bandwidth over a single fiber by using different wavelengths

Correct Answer:

Answer Area

|	
	IPoDWDM
	EDFA
	ROADM
	DWDM

QUESTION 5
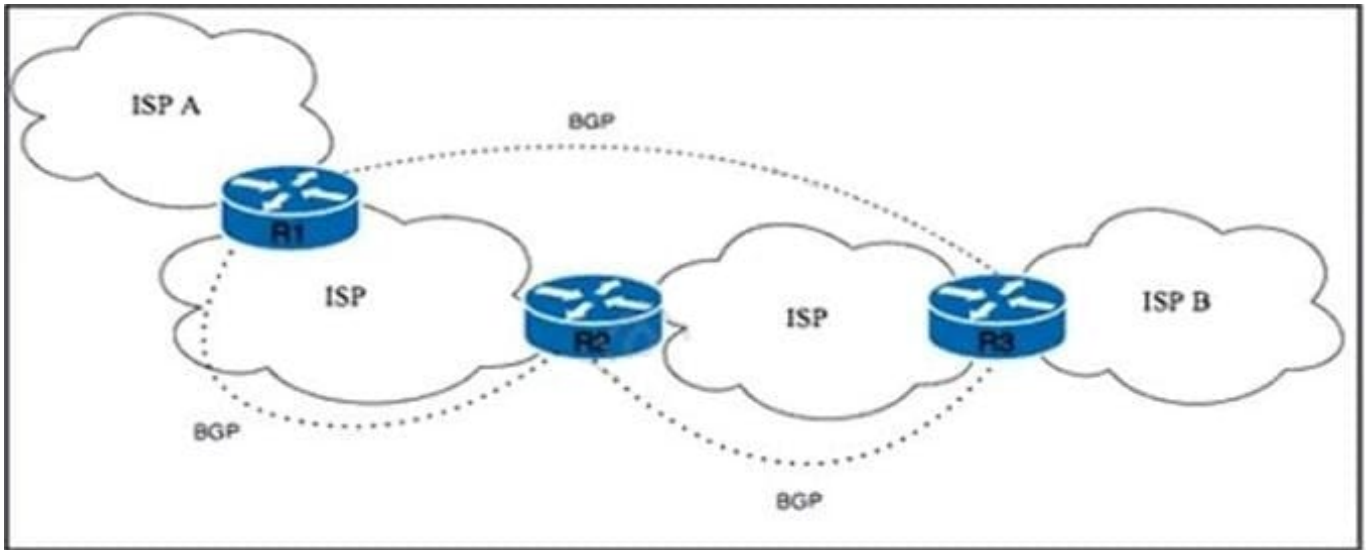
Refer to the exhibit. Tier 1 ISP A is connected to small Tier 3 ISP B. The EBGP routing protocol is used for route exchange. The networking team at ISP A noticed the flapping of BGP sessions with ISP B. The team decides to improve stability on the network by suppressing the subnet for 30 minutes when a session begins to flap. Which action must the team perform to meet this goal?

A. Implement BGP route dampening on ISP A router R1 with the bgp dampening 15 700 1500 30 command.

B. Implement a BGP route withdraw-delay timer on ISP B router R3 with the bgp withdraw-delay 30 15 90 30 command.

C. Implement a BGP route-penalty timer on ISP A router R1 with the bgp penalty-timer 30 250 750 15 command.

D. Implement BGP route suppression on ISP A router R2 with the bgp suppression 30 600 1200 30 command.

Correct Answer: A

QUESTION 6

Refer to the exhibit
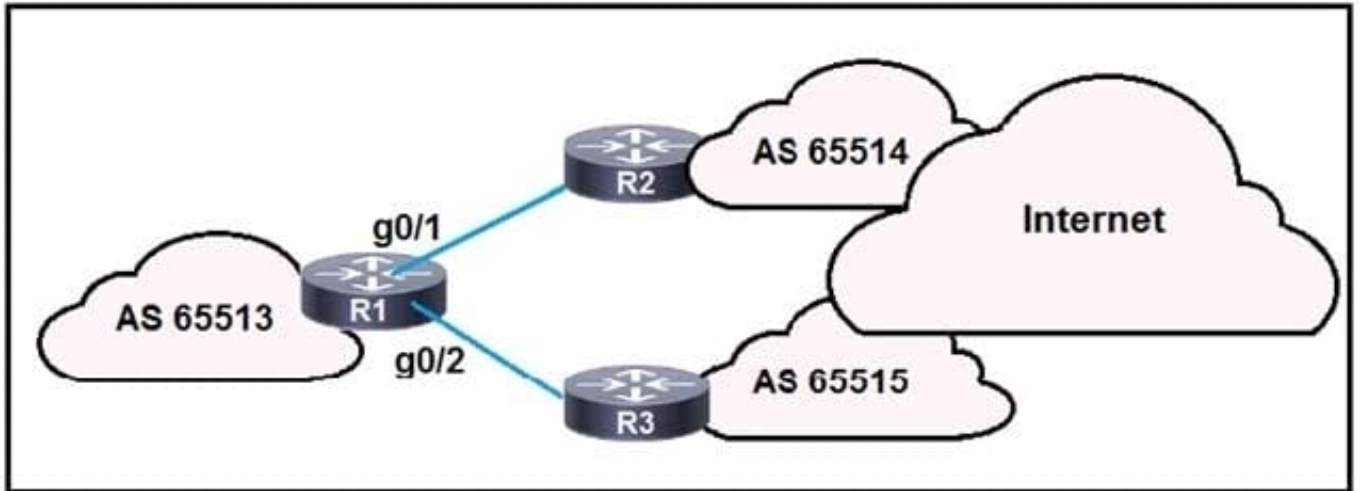
R1 is connected to two service providers and is under a DDoS attack.

Which statement about this design is true if URPF in strict mode is configured on both interfaces?

A. R1 drops all traffic that ingresses either interface that has a FIB entry that exits a different interface.

B. R1 drops destination addresses that are routed to a null interface on the router.

C. R1 permits asymmetric routing as long as the AS-PATH attribute entry matches the connected AS.

D. R1 accepts source addresses on interface gigabitethernet0/1 that are private addresses.

Correct Answer: A

QUESTION 7

Refer to the exhibit.

```
restconf_headers["Content-Type"]= "application/ yang-data+json"

loopback = {"name": "Loopback101",
       "description": "Router-1",
       "ip": "192.168.11.11",
       "netmask": "255.255.255.0"}
data = {
       "ietf-interfaces:interface": {
              "name": loopback["name"],
              "description": loopback["description"],
              "type": "iana-if-type:softwareLoopback",
              "enabled": True,
              "ietf-ip:ipv4": {
                     "address": [
                            {"ip": loopback["ip"],
                            "netmask": loopback["netmask"])
                     ] } } }
url= interface_url.format(ip= core1_ip, int_name= loopback["name"])
r = requests.put(url,
       headers = restconf_headers,
       auth=(username, password),
       json= data,
       verify=False)
print("Request Status Code: {}".format(r.status_code))
```

An engineer at a new ISP must configure many Cisco devices in the data center. To make the process more efficient, the engineer decides to automate the task with a REST API. Which action does this JSON script automate?

A. Configure the IP address for the existing loopback interface.

B. Configure a physical interface on the router with an IP address and then create a loopback interface.

C. Configure a physical interface on the router with an IP address.

D. Delete the existing loopback Interface and replace it with a new loopback interface.

Correct Answer: A

QUESTION 8

What is a feature of model-driven telemetry?

A. It occasionally streams to multiple servers in the network.

B. It is less secure because it uses community strings.

C. It uses the pull model to send requested data to a client when polled.

D. It uses the push model to stream data to desired destinations.

Correct Answer: D

QUESTION 9

Refer to the exhibit.
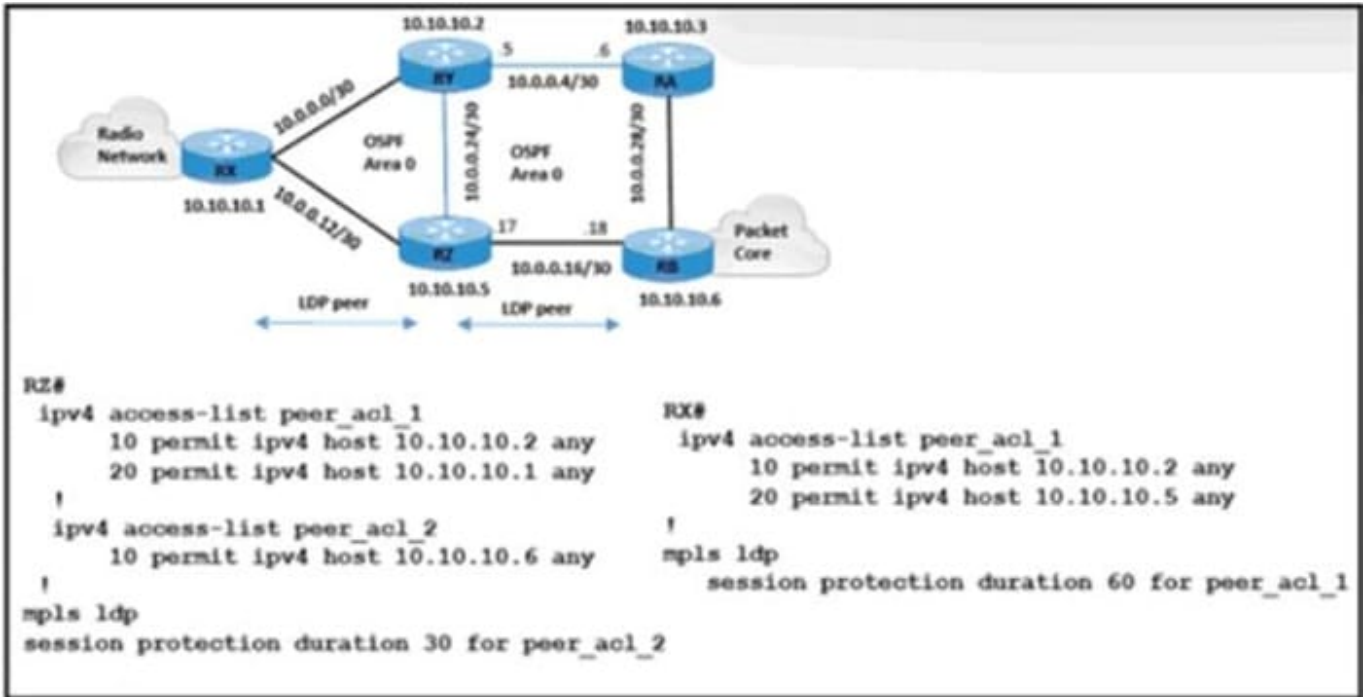
The radio network and packet core are using the route RX-RZ-RB to establish communication. The LDP session between 10.10.10.5 and 10.10.10.1 is experiencing link flapping at random intervals for 30-45 seconds each time. A network engineer must protect the LDP session and improve MPLS traffic convergence. Which action meets these requirements?

A. Configure peer_acl_2 on RX and allow IP address 10.10.10.6 in LDP.

B. Attach peer_acl_1 in for session protection duration 1 on RX.

C. Add session protection duration 60 for peer_acl_1 under the MPLS LDP instance on RZ.

D. Enable IGP-LDP sync on RZ and RX.

Correct Answer: C

QUESTION 10

Notification host: 192.168.101.1   udp-port: 162   type: trap
user: community1   security model: v1

Refer to the exhibit. Over the last few months, ISP A has doubled its user base. The IT Director asked the engineering team to monitor memory consumption and buffer statistics on all P and PE devices in the MPLS core. Most devices have CPU usage of 70% or more, so the solution must be targeted and secure. Which two commands must the engineering team implement on P and PE devices to meet these requirements? (Choose two.)

A. snmp-server enable traps memory bufferpeak

B. snmp-server host 192.168.101.1 version 1 community1 auth memory

C. snmp-server enable snmp-traps community1 bufferpeak

D. snmp-server host 192.168.101.1 version 2c community1 memory

E. snmp-server host 192.168.101.1 version 3 auth community1 memory

Correct Answer: AB

QUESTION 11

An engineer must implement QoS to prioritize traffic that requires better service throughout the network. The engineer started by configuring a class map to identify the high-priority traffic. Which additional tasks must the engineer perform to implement the new QoS policy?

A. Attach the class map to a policy map that sets the minimum bandwidth allocated to the classified traffic and designates the action to be taken on the traffic.

B. Attach the class map to a policy map that designates the action to be taken on the classified traffic and then attach the policy map to an interface using a service policy.

C. Attach the class map to a policy map within a VRF to segregate the high-priority traffic and then attach the policy map to an interface in another VRF.

D. Create a route map to manipulate the routes that are entered into the routing table and then attach the route map to an interface using a service policy.

Correct Answer: B

QUESTION 12
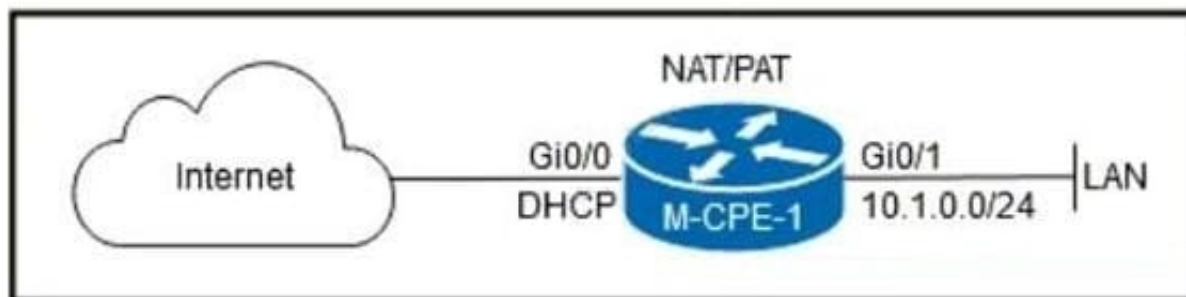
Refer to the exhibit. An engineer working for a service provider with an employee ID: 1234:56:789 notices that malicious traffic with a source IP in the RFC1918 range is arriving on the WAN connection to the internet and impacting customer resources on the LAN. Which ACL configuration must the engineer implement on M-CPE-1 to block the malicious traffic?

A.
```
ip access-list extended DROP_BAD_TRAFFIC
deny ip 10.0.0.0 0.255.255.255 any
deny ip 172.16.0.0 0.15.255.255 any
deny ip 192.168.0.0 0.0.255.255 any
permit ip any any
!
interface Gig 0/0
ip access-group DROP_BAD_TRAFFIC in
```

B.
```
ip access-list extended DROP_BAD_TRAFFIC
deny ip any 10.0.0.0 0.255.255.255
deny ip any 172.16.0.0 0.15.255.255
deny ip any 192.168.0.0 0.0.255.255
permit ip any any
!
interface Gig 0/0
ip access-group DROP_BAD_TRAFFIC in
```

C.
```
ip access-list extended DROP_BAD_TRAFFIC
deny ip any 10.0.0.0 0.255.255.255
deny ip any 172.16.0.0 0.15.255.255
deny ip any 192.168.0.0 0.0.255.255
permit ip any any
!
interface Gig 0/1
ip access-group DROP_BAD_TRAFFIC out
```

D.
```
ip access-list extended DROP_BAD_TRAFFIC
deny ip 10.0.0.0 0.255.255.255 any
deny ip 172.16.0.0 0.15.255.255 any
deny ip 192.168.0.0 0.0.255.255 any
permit ip any any
!
interface Gig 0/1
ip access-group DROP_BAD_TRAFFIC out
```

A. Option A

B. Option B

C. Option C

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D. Option D
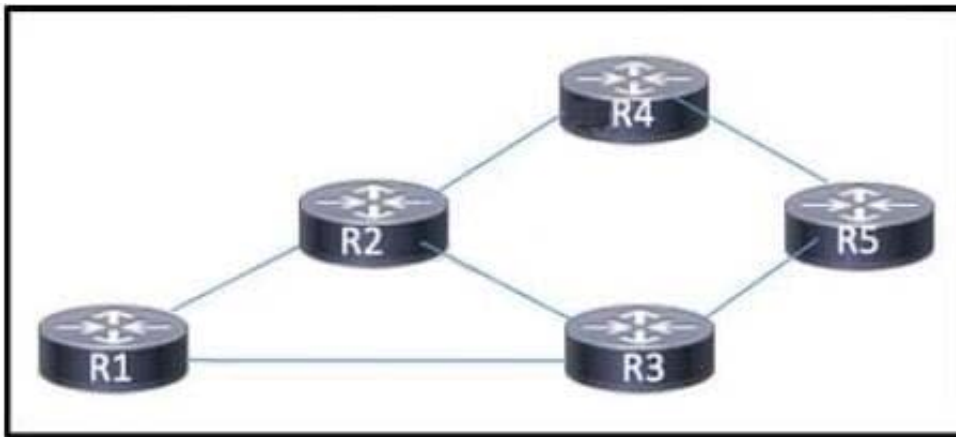
Correct Answer: A

QUESTION 13

An engineer working for a telecommunication company with an employee ID: 1234:56:789 must configure an OSPF router in a multivendor network so that it performs NSF in the event of a route processor switchover. Which configuration must the engineer apply?

A. router ospf 1 nsf cisco

B. router ospf 1 nsf cisco helper

C. router ospf 1 nsf ietf helper

D. router ospf 1 nsf ietf

Correct Answer: D

Reference: https://www.ciscolive.com/c/dam/r/ciscolive/emea/docs/2020/pdf/R6BGArNQ/TECCRS-2001.pdf slide 50

QUESTION 14

Refer to the exhibit. Routers R1 through R5 are being deployed within the core of a service provider running BGP. The core supports distribution of VPNv4 routes using MPLS. R3 currently has multiple paths to reach R4. A network engineer must implement BGP attributes so that R3 can reach R4 via R1. Which action must the engineer take to meet the requirement?

A. Configure R3 so the route to R4 through R1 will have a higher weight than the route from R2 or R5.

B. Configure R2 to send the route from R4 to R1 using a higher metric than what is advertised to R3.

C. Configure R3 so the route to R4 through R1 will have a lower local preference than the route from R2 or R5.

D. Configure R5 to send the route from R4 to R1 using a longer AS path than the AS path that it receives from R1 or

R2.

Correct Answer: A

QUESTION 15

The administrator of a small company network notices that intermittent network issues occasionally cause inbound notifications to its SNMP servers to be lost.

Which configuration must the administrator apply so that the SNMP servers acknowledge the notifications that they receive?

A. snmp-server community ciscotest rw 10

B. snmp-server host tests.cisco.com public snmp-server community ciscotest rw 10

C. snmp-server enable traps bgp snmp-server host 192.169.2.1 Informs

D. snmp-server enable traps snmp

Correct Answer: C

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