QUESTION 271
Refer to Exhibit. A network engineer is trying to retrieve SNMP MIBs with RESTCONF on the Cisco switch but fails. End-to-end routing is in place. Which configuration must the engineer implement on the switch to complete?

```
username cisco privilege 15 password 0 cisco
!
ip http server
ip http authentication local
ip http secure-server
!
snmp-server community private RW
!
netconf-yang
netconf-yang cisco-ia snmp-community-string cisco
restconf
```

A. netconf-yang cisco-ia snamp-community-string Public
B. snmp-server community cosco RW
C. snmp-server community public RO
D. netconf-yang cisco-Ia snmp-community-string Private

Answer: D
Explanation:

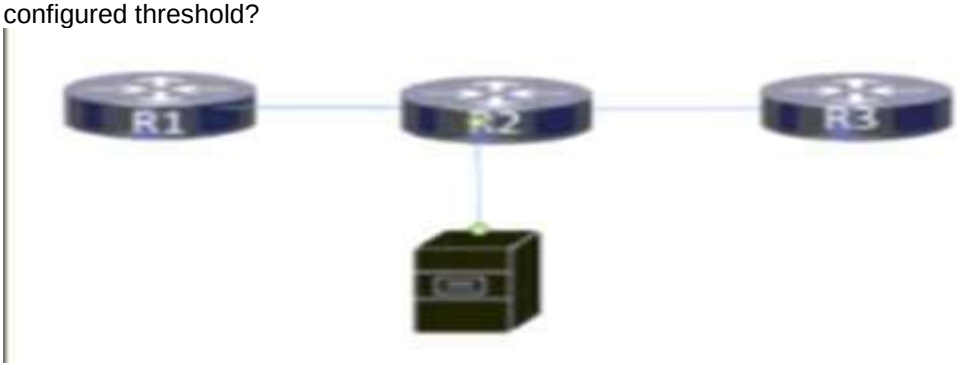
https://www.cisco.com/c/en/us/support/docs/storage-networking/management/200933-YANG-NETCONF-Configuration-Validation.html

QUESTION 272
Which feature describes the adjacency SID?

A. It applies only to point-to-point links.
B. It applies only to multipoint links
C. It is locally unique
D. It is globally unique.

Answer: C

QUESTION 273
Refer the exhibit. Users on a network connected to router R3 report slow speeds when they connect to the server connected to R2. After analyzing traffic on the network, a network engineer identified congestion on the link between R2 and R3 as the cause. Which QoS service must the engineer implement to drop traffic on the link when it exceeds a configured threshold?

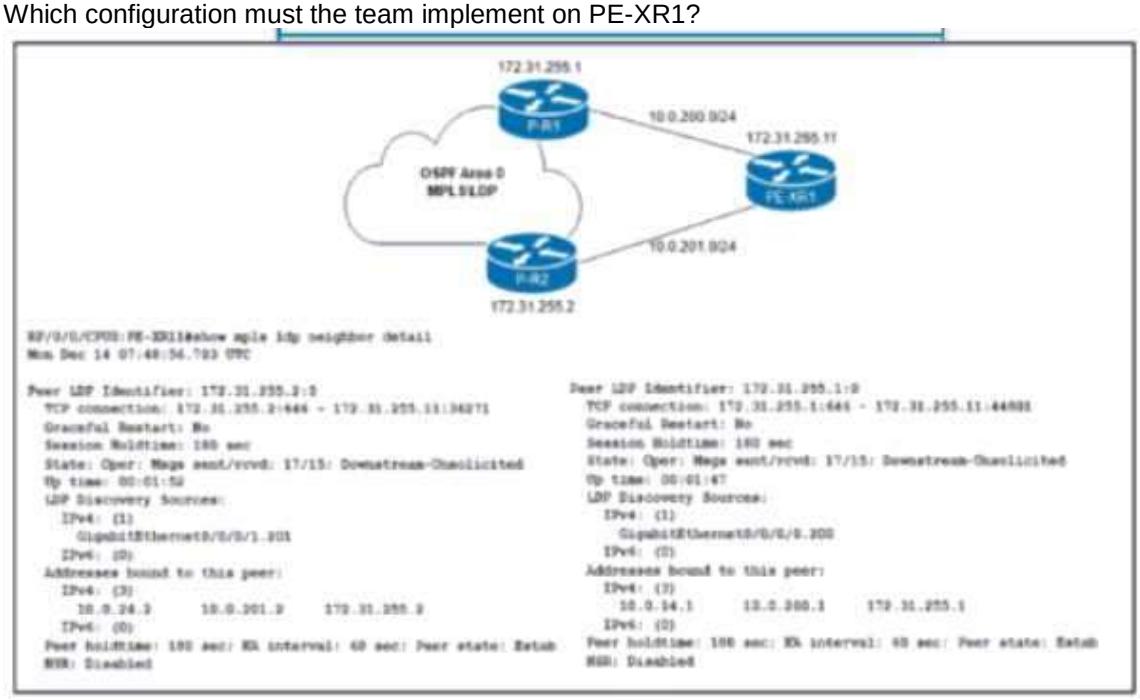


A. first-in, first-out
B. traffic shaping
C. class-based weighted fair queueing
D. traffic policing

Answer: D
Explanation:
https://www.cisco.com/c/en/us/support/docs/quality-of-service-qos/qos-policing/19645-policevsshape.html

QUESTION 274
Refer to the exhibit. The network team must implement MPLS LDP session protection with two requirements:
- Session protection is provided for core loopback IP addresses only.
- The LDP session must remain operational for one hour when the WAN link on PE-XR1 fails.

Which configuration must the team implement on PE-XR1?



```
configure terminal
ipv4 access-list LDP-SESSION-PROTECTION
permit ipv4 172.31.255.0 0.0.0.255 any
permit ipv4 10.0.0.0 0.0.255.255 any
!
mpls ldp
session protection for LDP-SESSION-PROTECTION duration 3600
end
```

```
configure terminal
ipv4 access-list LDP-SESSION-PROTECTION
permit ipv4 172.31.255.0 0.0.0.255 any
permit ipv4 10.0.0.0 0.0.255.255 any
!
mpls ldp
session protection for LDP-SESSION-PROTECTION duration 60
end
```

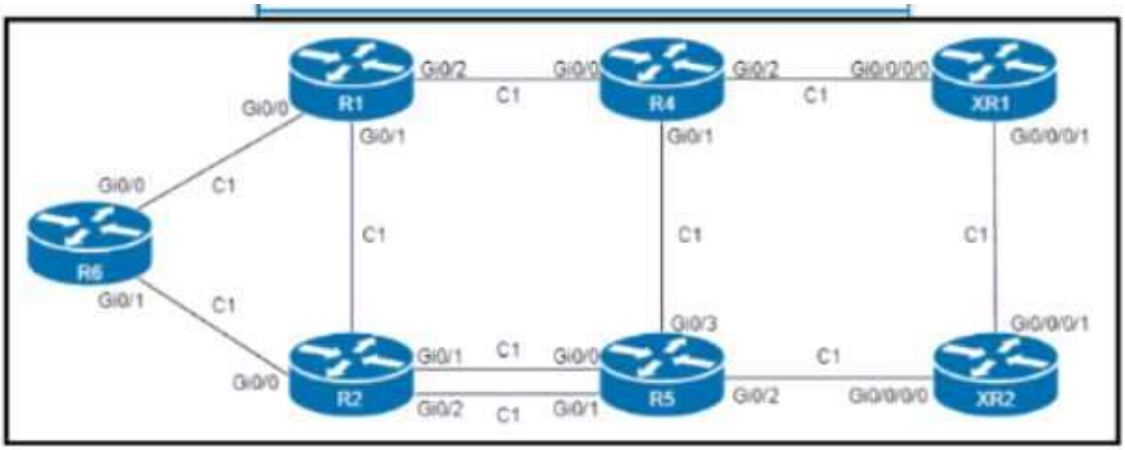
```
configure terminal
ipv4 access-list LDP-SESSION-PROTECTION
permit ipv4 172.31.255.0 0.0.0.255 any
!
mpls ldp
session protection for LDP-SESSION-PROTECTION duration 60
end
```

```
configure terminal
ipv4 access-list LDP-SESSION-PROTECTION
permit ipv4 172.31.255.0 0.0.0.255 any
!
mpls ldp
session protection for LDP-SESSION-PROTECTION duration 3600
end
```

A. Option A
B. Option B
C. Option C
D. Option D

Answer: D

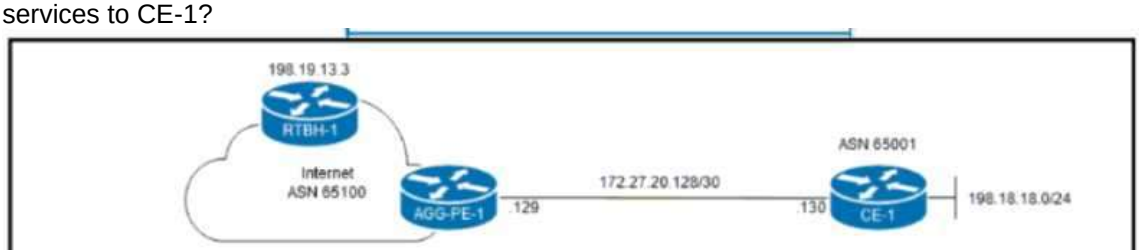
QUESTION 275
Refer to the exhibit. An engineer configured R6 as the headend LSR of an RSVP-TE LSP to router XR2, with the dynamic path signaled as R6-R2-R5-XR2. and set the OSPF cost of all links to 1. MPLS autotunnel backup Is enabled on all routers to protect the LSP. Which two NNHOP backup tunnels should the engineer use to complete the implementation? (Choose two.)



A. The R6 backup tunnel path R6-R1-R4-R5.
B. The R2 backup tunnel path R2-R5 across the alternate link.
C. The R2 backup tunnel path R2-R1-R4-XR1-XR2.
D. The R6 backup tunnel path R6-R2-R5
E. The R6 backup tunnel path R6-R1-R2.

Answer: AC

QUESTION 276
Refer to the exhibit. ISP ASN 65100 provides internet services to router CE-1 and receives customer prefix 198.18 18.0/24 via EBGP. An administrator for the ISP Is now provisioning RTBH services to provide on-demand data-plane security for the customer s IP space.
Which route-map configuration must the administrator apply to router RTBH-1 to complete the implementation of RTBH services to CE-1?




```
RTBH-1#show run | s router bgp
router bgp 65100
 bgp log-neighbor-changes
 neighbor 172.27.20.130 remote-as 65001
 neighbor 172.27.20.130 description CE-1
 neighbor 172.27.20.130 ebgp-multihop 3
 neighbor 198.19.13.1 remote-as 65100
 neighbor 198.19.13.1 description AGG-PE-1
 !
 address-family ipv4
  redistribute static route-map STATIC-TO-BGP
  neighbor 172.27.20.130 activate
  neighbor 172.27.20.130 prefix-list DENY-ALL-ROUTES out
  neighbor 172.27.20.130 route-map RTBH-CUSTOMER-IN in
  neighbor 198.19.13.1 activate
  neighbor 198.19.13.1 send-community
 exit-address-family

RTBH-1#show ip prefix-list
ip prefix-list AS65001-PREFIXES: 1 entries
   seq 5 permit 198.18.18.0/24 le 32

RTBH-1#show ip community-list
Community standard list 99
     permit 65100:123
```

```
AGG-PE-1#show ip route static
Gateway of last resort is not set

      192.168.255.0/32 is subnetted, 1 subnets
S        192.168.255.255 is directly connected, Null0


AGG-PE-1#show bgp ipv4 unicast 198.18.18.0
BGP routing table entry for 198.18.18.0/24, version 52
Paths: (1 available, best #1, table default)
  Advertised to update-groups:
     9
  Refresh Epoch 29
  65001
    172.27.20.130 from 172.27.20.130 (198.18.18.1)
      Origin IGP, metric 0, localpref 150, valid, external, best
      rx pathid: 0, tx pathid: 0x0
```

```
route-map RTBH-CUSTOMER-IN permit 10
  description AS65001
  match ip address prefix-list AS65001-PREFIXES
  match community 99
  set local-preference 200
  set community no-export additive
  set ip next-hop 192.168.255.255
route-map RTBH-CUSTOMER-IN deny 65535
  description DEFAULT DENY
```

```
route-map RTBH-CUSTOMER-IN permit 10
  description AS65001
  match ip address prefix-list AS65001-PREFIXES
  match community 99
  set local-preference 200
  set community local-as additive
  set ip next-hop 192.168.255.255
route-map RTBH-CUSTOMER-IN deny 65535
  description DEFAULT DENY
```

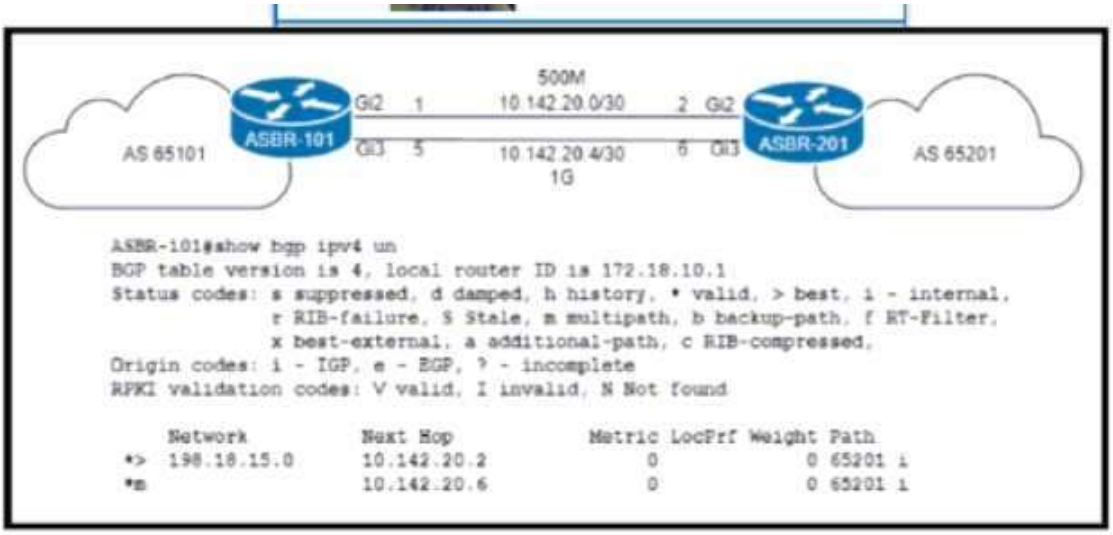
```
route-map RTBH-CUSTOMER-IN permit 10
  description AS65001
  match ip address prefix-list AS65001-PREFIXES
  match community 99
  set local-preference 200
  set community no-advertise additive
  set ip next-hop local-address
route-map RTBH-CUSTOMER-IN deny 65535
  description DEFAULT DENY
```

```
route-map RTBH-CUSTOMER-IN permit 10
  description AS65001
  match ip address prefix-list AS65001-PREFIXES
  match community 99
  set local-preference 200
  set community no-advertise additive
  set ip next-hop 192.168.255.255
route-map RTBH-CUSTOMER-IN deny 65535
  description DEFAULT DENY
```

A. Option A
B. Option B
C. Option C
D. Option D

Answer: A

QUESTION 277
Refer to the exhibit an engineer working for a private telecommunication company with an employee Id: 4065:96:080 upgrades the WAN link between routers ASBR-101 and ASBR-201 to 1Gb by Installing a new physical connection between the Gi3 Interfaces.
Which BGP attribute must the engineer configure on ASBR-201 so that the existing WAN link on Gi2 Is maintained as a backup?



onfigure terminal
ip prefix-list ALLOWED_PREFIXES seq 5 permit 198.18.15.0/24

route-map AS65101-OUT permit 10
match ip address prefix-list ALLOWED_PREFIXES
set as-path prepend 65101 65101

router bgp 65201
address-family ipv4
neighbor 10.142.20.1 route-map AS65101-OUT out
end

configure terminal
ip prefix-list ALLOWED_PREFIXES seq 5 permit 198.18.15.0/24

route-map AS65101-OUT permit 10
match ip address prefix-list ALLOWED_PREFIXES
set as-path prepend 65101 65101

onfigure terminal
ip prefix-list ALLOWED_PREFIXES seq 5 permit 198.18.15.0/24

route-map AS65101-OUT permit 10
match ip address prefix-list ALLOWED_PREFIXES
set metric 100

router bgp 65201
address-family ipv4
neighbor 10.142.20.1 route-map AS65101-OUT out
end

configure terminal
ip prefix-list ALLOWED_PREFIXES seq 5 permit 198.18.15.0/24

route-map AS65101-OUT permit 10
match ip address prefix-list ALLOWED_PREFIXES
set metric 100

router bgp 65201
address-family ipv4
neighbor 10.142.20.5 route-map AS65101-OUT out
end

A. Option A
B. Option B
C. Option C

D. Option D

Answer: C

QUESTION 278
A customer has requested that the service provider use a Cisco MPLS TE tunnel to force the E-line service to take a specific route. What is used to send the traffic over the tunnel?

A. static route
B. preferred path
C. forwarding adjacency
D. autoroute destination

Answer: B

QUESTION 279
An engineer must apply an 802.1ad-compliant configuration to a new switchport with these requirements:
- The switchport must tag all trame when it enters the port
- The switchport Is expected to provide the same level of service to traffic from any customer VLAN

Which configuration must the engineer use?

```
interface GigabitEthernet1/0/1
 switchport mode trunk
 switchport trunk encapsulation dot1q
 encapsulation ISL
 bridge-domain 12
```

```
interface GigabitEthernet1/0/1
 ethernet dot1ad uni c-port
 service instance 12
 encapsulation dot1q
 rewrite ingress tag push dot1ad 21 symmetric
 bridge-domain 12
```

```
interface GigabitEthernet1/0/1
 ethernet dot1ad nni
 service instance 12
 encapsulation dot1ad
 bridge-domain 12
```

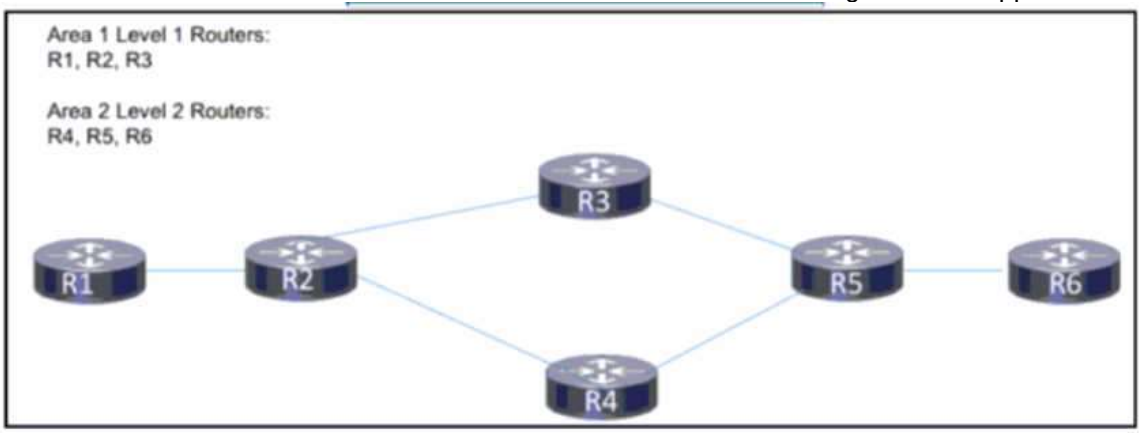
```
interface GigabitEthernet1/0/1
 ethernet dot1ad uni s-port
 service instance 12
 encapsulation default
 rewrite ingress tag push dot1ad 21 symmetric
 bridge-domain 12
```

A. Option A
B. Option B
C. Option C
D. Option D

Answer: D
Explanation:
https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/cether/configuration/xe-3s/asr903/16-12-1/b-ce-xe-16-12-asr900/m_ce_802_1ad_900.html

QUESTION 280
Refer to the exhibit A network engineer is in the process of implementing IS-IS Area 1 and Area 2 on this network to segregate traffic between different segments of the network The hosts in the two new areas must maintain the ability to

communicate with one another In both directions. Which additional change must be applied?



A. Reconfigure either R3 or R4 as a Level 1/Level 2 router.
B. Reconfigure routers R1, R2 R5. and R6 as Level 1/Level 2 routers.
C. Reconfigure routers R2 and R5 as Level 1/Level 2 routers.
D. Reconfigure routers R4, R5 and R6 as Level 1 routers

Answer: A

QUESTION 281
A network engineer must configure a router for Flexible NetFlow IPFIX export. The IP address of the destination server is 172.17.12.1 The source address must be set to the Loopback0 IPv4 address and exported packets must be set to DSCP CS3. The TTL must be 64 and the transport protocol must be set to UDP with destination port 4739. Which configuration must the engineer apply to the router?

```
configure terminal
flow exporter EXPORTER-1
destination 172.17.12.1
source Loopback0
dscp 24
ttl 64
export-protocol ipfix
end
```

```
configure terminal
flow exporter EXPORTER-1
destination 172.17.12.1
source Loopback0
dscp 3
ttl 64
export-protocol ipfix
end
```

```
configure terminal
flow exporter EXPORTER-1
destination 172.17.12.1
source Loopback0
dscp 24
ttl 64
export-protocol netflow-v9
transport udp 4739
end

configure terminal
flow exporter EXPORTER-1
destination 172.17.12.1
source Loopback0
dscp 3
ttl 64
export-protocol netflow-v9
transport udp 4739
end
```

A. Option A
B. Option B
C. Option C
D. Option D

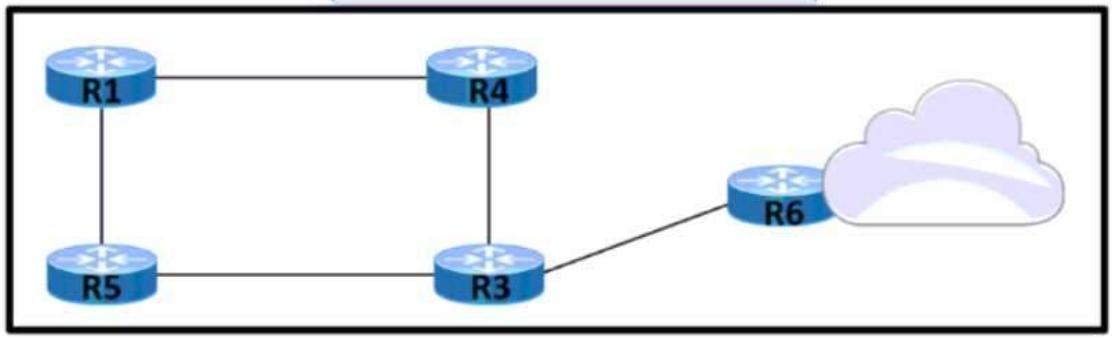
Answer: A

QUESTION 282
Which action does the ingress VTEP perform on traffic between EVPN VXLAN overlays?

A. routing and tunneling when doing symmetric IRB
B. routing when doing asymmetric IRB
C. routing and bridging when doing asymmetric IRB
D. bridging when doing symmetric IRB

Answer: C
Explanation:
Asymmetric IRB
With asymmetric IRB, the ingress VTEP performs both Layer-2 bridging and Layer-3 routing lookup, whereas the egress VTEP performs only Layer-2 bridging lookup.
https://www.cisco.com/c/en/us/products/collateral/switches/nexus-9000-series-switches/guide-c07-734107.html

QUESTION 283
Refer to the exhibit. An organization s network recently experienced several significant outages due to device failures. The network administrator just moved the network devices to a new central data center, and packets are switched using labels. The administrator Is now implementing NSF on the network to reduce potential risk factors in the event of another outage. Which task must the administrator perform on each router as part of the process?



A. Remove route filtering to speed repopulation of the link-state database
B. Copy the router s existing state information and share the file with its peers to enable BGP soft resets
C. Implement MPLS to forward packets while the RIB updates after a faliover.
D. Implement Graceful Restart to mitigate the delay in MPLS LDP synchronization when the IGP starts up.

Answer: D

QUESTION 284
A network administrator is planning a new network with a segment-routing architecture using a distributed control plane. How is routing information distributed on such a network?

A. Each segment is signalled by an SR controller, but each segment makes Its own steering decisions based on SR policy.
B. Each segment is signalled by MPLS, and each segment makes steering decisions based on the routing policy pushed by BGP.
C. Each segment is signalled by an SR controller that makes the steering decisions for each node.
D. Each segment is signalled by a compatible routing protocol and each segment makes its own steering decisions based on SR policy.

Answer: D

QUESTION 285
When Cisco lOS XE REST API uses HTTP request methods what is the purpose of a PUT request?

A. retrieves the specified resource or representation
B. submits data to be processed to the specified resource
C. updates the specified resource with new information
D. creates a new resource

Answer: C
Explanation:

PUT	Updates the specified resource with new information. The data that is included in the PUT operation replaces the previous data. • The PUT operation is used to replace or modify an existing resource. The PUT operation cannot be used to create a new resource. • The request body of a PUT operation must contain the complete representation of the mandatory attributes of the resource.

QUESTION 286
Refer to me exhibit. An engineer started lo configure a router for OSPF.
Which configuration must me engineer perform on me router without changing any interface configuration so that the router establishes an OSPF neighbor relationship with its peer?

```
router(config)# router ospf 11
router(config-if)# passive-interface default
```

router(config)# **router ospf 11**router(config-if)# **no passive-interface ethernet 1/1**

router(config)# **interface ethernet 1/1**router (config-if)# **ip ospf priority 0**

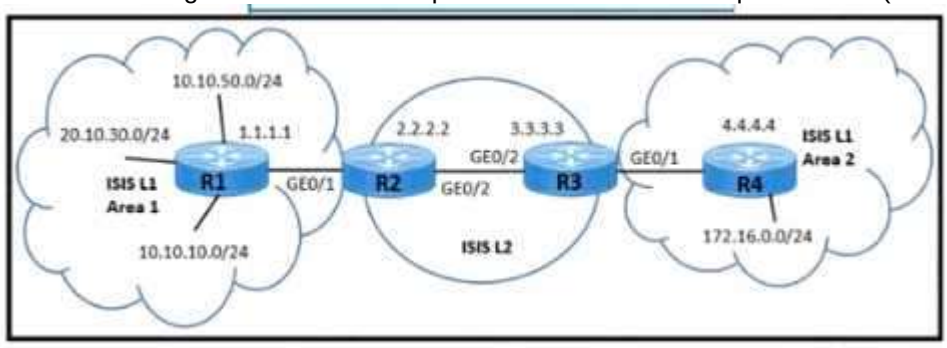
router(config)# **interface ethernet 1/1**router(config-if)# **ip ospf hello-interval**

router(config)# **interface ethernet 1/1**router(config-if)# **no shutdown**

A. Option A
B. Option B
C. Option C
D. Option D

Answer: A

QUESTION 287
Refer to the exhibit. A network engineer must meet these requirements to provide a connects, solution:
- The customer connected to Area 2 needs to access the application in Area 1 on the 10.10.10.0/24 subnet
- The Customer must not have access to the 20.10 30.0/24 subnet.
- The service provider must make sure that the Area 2 routing database limits the number of IP addresses in the routing table.
Which two configurations must be implemented to meet the requirements? (Choose two)



A. Set a tag value of 200 to match the summary address 10.0.0/16 on R2.
B. Set a tag value of 200 to match the summary address 10.0.0.0/16 on R3.
C. Apply the route map for tag 200 and leak Level 2 routes into Level 1 Area 2 on R3
D. Apply the route map for tag 200 and teak Level 2 routes into Level 1 Area 2 on R4.
E. Set a tag value of 200 to match the summary address 10.0.0./16 on R1.

Answer: BC