QUESTION 553
An engineer must export the contents of the devices object in JSON format.
Which statement must be used?

```
import json
from json import dumps, loads

Devices=[
{
  'name' : 'distsw1',
  'ip' : '192.168.255.1',
  'type' : 'Catalyst C9407R',
  'user' : 'netadmin',
  'pass' : '383847459c9484940373dc038484943'
}]
```

A. json.repr(Devices)
B. json.dumps(Devices)
C. json.prints(Devices)
D. json.loads(Devices)

Answer: B

QUESTION 554
Refer to the exhibit. An engineer troubleshoots connectivity issues with an application. Testing is performed from the server gateway, and traffic with the DF bit set is dropped along the path after increasing packet size. Removing the DF bit setting at the gateway prevents the packets from being dropped. What is the cause of this issue?

```
R1#ping 10.1.3.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.3.2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 24/43/72 ms

R1#ping 10.1.3.2 size 1500
Type escape sequence to abort.
Sending 5, 1500-byte ICMP Echos to 10.1.3.2, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 24/48/60 ms


R1#debug ip icmp
ICMP packet debugging is on

R1#ping 10.1.3.2 size 1500 df-bit
Type escape sequence to abort.
Sending 5, 1500-byte ICMP Echos to 10.1.3.2, timeout is 2 seconds:
Packet sent with the DF bit set
MMMMM
Success rate is 0 percent (0/5)
```

A. PMTUD does not work due to ICMP Packet Too Big messages being dropped by an ACL
B. The remote router drops the traffic due to high CPU load
C. The server should not set the DF bit in any type of traffic that is sent toward the network
D. There is a CoPP policy in place protecting the WAN router CPU from this type of traffic

Answer: C

QUESTION 555
Refer to the exhibit. An engineer configures VRRP and issues the show commands to verify operation. What does the engineer confirm about VRRP group 1 from the output?

```
R1#show running-config interface fa0/0
Building configuration...

Current configuration: 192 bytes
!
interface FastEthernet0/0
 ip address 192.68.3.5 255.255.255.0
 duplex full
 vrrp 1 ip 192.168.3.1
 vrrp 1 priority 110
 vrrp 1 authentication text cisco
 vrrp 1 track 20 decrement 20
end

R1#show running-config | include track 20
track 20 ip route 10.10.1.1 255.255.255.255 reachability
```

```
R2#show running-config interface fa0/0
Building configuration...

Current configuration: 141 bytes
!
interface FastEthernet0/0
 ip address 192.68.3.2 255.255.255.0
 duplex full
 vrrp 1 ip 192.168.3.1
 vrrp 1 authentication text cisco
end
```

A. There is no route to 10.10.1.1/32 in R2's routing table
B. If R1 reboots, R2 becomes the master virtual router until R2 reboots
C. Communication between VRRP members is encrypted using MD5
D. R1 is master if 10.10.1.1/32 is in its routing table

Answer: D

QUESTION 556
Refer to the exhibit. An engineer must add the SNMP interface table to the NetFlow protocol flow records. Where should the SNMP table option be added?

```
flow record Recorder
 match ipv4 protocol
 match ipv4 source address
 match ipv4 destination address
 match transport source-port
 match transport destination-port
!
flow exporter Exporter
 destination 192.168.100.22
 transport udp 2055
!
flow monitor Monitor
 exporter Exporter
 record Recorder
!
et-analytics
 ip flow-export destination 192.168.100.22 2055
!
interface gi1
ip flow monitor Monitor input
ip flow monitor Monitor output
et-analytics enable
!
```

A. under the interface
B. under the flow record
C. under the flow monitor
D. under the flow exporter

Answer: D
Explanation:
option interface-table
This command causes the periodic sending of an options table, which will allow the collector to map the interface SNMP indexes provided in the flow records to interface names. The optional timeout can alter the frequency at which the reports are sent.

```
Router(config)# flow exporter FLOW-EXPORTER-1
Router(config-flow-exporter)# option interface-table
```

https://www.cisco.com/c/en/us/td/docs/ios/fnetflow/command/reference/fnf_book/fnf_02.html

QUESTION 557
Refer to the exhibit. How does the router handle traffic after the CoPP policy is configured on the router?

```
    0 packets, 0 bytes
    5 minute offered rate 0000 bps, drop rate 0000 bps
    Match: access-group name SNMP
    police:
        cir 8000 bps, bc 1500 bytes
      conformed 0 packets, 0 bytes; actions:
        transmit
      exceeded 0 packets, 0 bytes; actions:
        drop
      conformed 0000 bps, exceeded 0000 bps

  Class-map: class-default (match-any)
    13858 packets, 1378745 bytes
    5 minute offered rate 0000 bps, drop rate 0000 bps
    Match: any
```

A. Traffic coming to R1 that does not match access list SNMP is dropped.
B. Traffic coming to R1 that matches access list SNMP is policed.
C. Traffic passing through R1 that matches access list SNMP is policed.
D. Traffic generated by R1 that matches access list SNMP is policed.

Answer: A

QUESTION 558
Refer to the exhibit. Which command set changes the neighbor state from Idle (Admin) to Active?

```
R1#show ip bgp sum
BGP router identifier 1.1.1.1, local AS number 65001
<output omitted>

Neighbor        V           AS MsgRcvd MsgSent   TblVer  InQ OutQ Up/Down  State/PfxRcd
192.168.50.2    4        65002       0       0        1    0    0 00:00:46 Idle (Admin)
```

A.
```
R1(config)#router bgp 65002
R1(config-router)#neighbor 192.168.50.2 activate
```
B.
```
R1(config)#router bgp 65001
R1(config-router)#neighbor 192.168.50.2 activate
```
C.
```
R1(config)#router bgp 65001
R1(config-router)#no neighbor 192.168.50.2 shutdown
```
D.
```
R1(config)#router bgp 65001
R1(config-router)#neighbor 192.168.50.2 remote-as 65001
```

Answer: C

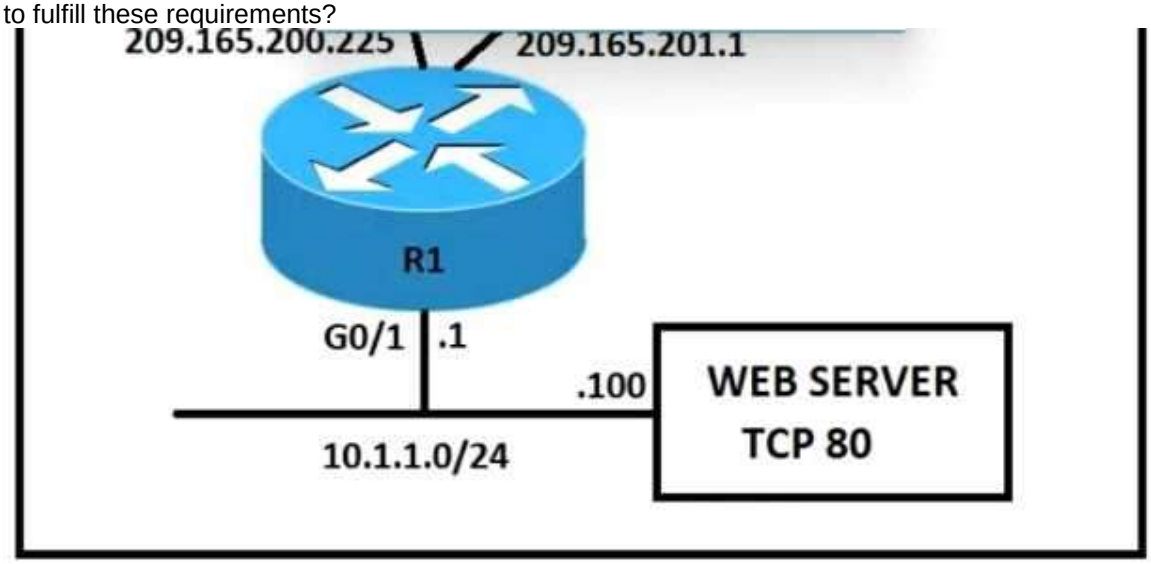
QUESTION 559
A network engineer configures a WLAN controller with increased security for web access. There is IP connectivity with the WLAN controller, but the engineer cannot start a management session from a web browser. Which action resolves

the issued

A. Disable JavaScript on the web browser
B. Disable Adobe Flash Player
C. Use a browser that supports 128-bit or larger ciphers.
D. Use a private or incognito session.

Answer: C

QUESTION 560
Refer to the exhibit. An engineer must configure static NAT on R1 lo allow users HTTP access to the web server on TCP port 80. The web server must be reachable through ISP 1 and ISP 2. Which command set should be applied to R1 to fulfill these requirements?



A. ip nat inside source static tcp 10.1.1.100 80 209.165.200.225 80 extendable
ip nat inside source static tcp 10.1.1.100 80 209.165.201.1 80 extendable
B. ip nat inside source static tcp 10.1.1.100 80 209.165.200.225 80
ip nat inside source static tcp 10.1.1.100 80 209.165.201.1 80
C. ip nat inside source static tcp 10.1.1.100 80 209.165.200.225 80
ip nat inside source static tcp 10.1.1.100 8080 209.165.201.1 8080
D. ip nat inside source static tcp 10.1.1.100 80 209.165.200.225 80 no-alias
ip nat inside source static tcp 10.1.1.100 80 209.165.201.1 80 no-alias

Answer: B

QUESTION 561
By default, which virtual MAC address does HSRP group 16 use?

A. c0:41:43:64:13:10
B. 00:00:0c 07:ac:10
C. 00:05:5c:07:0c:16
D. 05:00:0c:07:ac:16

Answer: B

QUESTION 562
A customer requests a design that includes GLBP as the FHRP. The network architect discovers that the members of the GLBP group have different throughput capabilities.
Which GLBP load balancing method supports this environment?

A. host dependent
B. least connection
C. round robin
D. weighted

Answer: A

QUESTION 563
In a Cisco SD-WAN solution, which two functions are performed by OMP? (Choose two.)

A. advertisement of network prefixes and their attributes
B. configuration of control and data policies
C. gathering of underlay infrastructure data
D. delivery of crypto keys
E. segmentation and differentiation of traffic

Answer: AD

QUESTION 564
A network engineer is enabling HTTPS access to the core switch, which requires a certificate to be installed on the switch signed by the corporate certificate authority. Which configuration commands are required to issue a certificate signing request from the core switch?

A.
```
Core-Switch(config)#crypto pki enroll Core-Switch
Core-Switch(config)#ip http secure-trustpoint Core-Switch
```

B.
```
Core-Switch(config)#crypto pki trustpoint Core-Switch
Core-Switch(ca-trustpoint)#enrollment terminal
Core-Switch(config)#crypto pki enroll Core-Switch
```

C.
```
Core-Switch(config)#crypto pki trustpoint Core-Switch
Core-Switch(ca-trustpoint)#enrollment terminal
Core-Switch(config)#ip http secure-trustpoint Core-Switch
```

D.
```
Core-Switch(config)#ip http secure-trustpoint Core-Switch
Core-Switch(config)#crypto pki enroll Core-Switch
```

Answer: B

QUESTION 565
An engineer must create a new SSID on a Cisco 9800 wireless LAN controller.
The client has asked to use a pre-shared key for authentication.
Which profile must the engineer edit to achieve this requirement?

A. RF
B. Policy
C. WLAN
D. Flex

Answer: B

QUESTION 566
A vulnerability assessment highlighted that remote access to the switches is permitted using unsecure and unencrypted protocols.
Which configuration must be applied to allow only secure and reliable remote access for device administration?

A. line vty 0 15
login local
transport input none
B. line vty 0 15
login local
transport input telnet ssh
C. line vty 0 15
login local
transport input ssh
D. line vty 0 15
login local
transport input all

Answer: C

QUESTION 567
How does a fabric AP fit in the network?

A. It is in local mode and must be connected directly to the fabric border node
B. It is in FlexConnect mode and must be connected directly to the fabric edge switch.
C. It is in FlexConnect mode and must be connected directly to the fabric border node
D. It is in local mode and must be connected directly to the fabric edge switch.

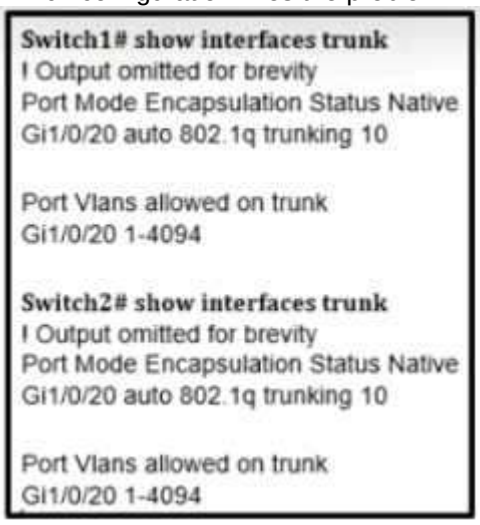
Answer: D

QUESTION 568
How are map-register messages sent in a LISP deployment?

A. egress tunnel routers to map resolvers to determine the appropriate egress tunnel router
B. ingress tunnel routers to map servers to determine the appropriate egress tunnel router
C. egress tunnel routers to map servers to determine the appropriate egress tunnel router
D. ingress tunnel routers to map resolvers to determine the appropnate egress tunnel router

Answer: C

QUESTION 569
Refer to the exhibit. The trunk does not work over the back-to-back link between Switch1 interface Giq1/0/20 and Switch2 interface Gig1/0/20.
Which configuration fixes the problem?



A.
```
Switch1(config)#interface gig1/0/20
Switch1(config-if)#switchport mode dynamic auto
```

B.
```
Switch2(config)#interface gig1/0/20
Switch2(config-if)#switchport mode dynamic desirable
```

C.
```
Switch1(config)#interface gig1/0/20
Switch1(config-if)#switchport trunk native vlan 1
Switch2(config)#interface gig1/0/20
Switch2(config-if)#switchport trunk native vlan 1
```

D.
```
Switch2(config)#interface gig1/0/20
Switch2(config-if)#switchport mode dynamic auto
```

Answer: B

QUESTION 570
Based on the router's API output in JSON format below, which Python code will display the value of the "hostname" key?

```
{
    "response": [{
        "family": "Switches",
        "macAddress": "00:41:43:64:13:00",
        "hostname": "SwitchIDF14",
        "upTime": "352 days, 6:17:26:10",
        "lastUpdated": "2020-07-12 21:15:29"
    }]
}
```

A.
```
json_data = json.loads(response.text)
print(json_data[response][0][hostname])
```

B.
```
json_data = response.json()
print(json_data['response'][0]['hostname'])
```

C.
```
json_data = response.json()
print(json_data['response'][family][hostname'])
```

D.
```
json_data = json.loads(response.text)
print(json_data['response']['family']['hostname'])
```

Answer: D

QUESTION 571
Refer to the exhibit. An engineer attempts to bundle interface Gi0/0 into the port channel, but it does not function as expected.
Which action resolves the issue?

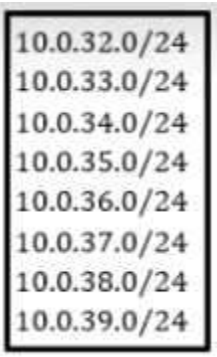
```
Switch1#show lacp internal
Flags:  S - Device is requesting Slow LACPDUs
        F - Device is requesting Fast LACPDUs
        A - Device is in Active mode       P - Device is in Passive mode

Channel group 1
                            LACP port     Admin     Oper    Port        Port
Port      Flags   State     Priority      Key       Key     Number      State
Gi0/0     SP      hot-sby   20            0x1       0x1     0x1         0x5
Gi0/1     SA      bndl      15            0x1       0x1     0x2         0x3C
```

A. Configure channel-group 1 mode active on interface Gi0/0.
B. Configure no shutdown on interface Gi0/0
C. Enable fast LACP PDUs on interface Gi0/0.
D. Set LACP max-bundle to 2 on interface Port-channeM

Answer: C

QUESTION 572
Refer to the exhibit. An engineer must permit traffic from these networks and block all other traffic.



An informational log message should be triggered when traffic enters from these prefixes.
Which access list must be used?

A. access-list acl_subnets permit ip 10.0.32.0 0 0.0.255 log
B. access-list acl_subn*ls permit ip 10.0.32.0 0.0.7.255 log
C. access-list acl_subnets permit ip 10.0.32.0 0.0.7.255 access-list acl_subnets deny ip any log
D. access-list acl_subnets permit ip 10.0.32.0 255.255.248.0 log

Answer: B

QUESTION 573
Refer to the exhibit. After the code is run on a Cisco IOS-XE router, the response code is 204.
What is the result of the script?

```
        'Accept': 'application/yang-data+json',
        'Content-Type': 'application/yang-data+json'
    },
    data = json.dumps({
        'Cisco-IOS-XE-native:GigabitEthernet': {
            'ip': {
                'address': {
                    'primary': {
                        'address': '10.10.10.1',
                        'mask': '255.255.255.0'
                    }
                }
            }
        }
    }),
    verify = False)

# Print the HTTP response code
print('Response Code: ' + str(response.status_code))
```

A. The configuration fails because another interface is already configured with IP address 10.10.10.1/24.
B. The configuration fails because interface GigabitEthernet2 is missing on the target device.
C. The configuration is successfully sent to the device in cleartext.
D. Interface GigabitEthernet2 is configured with IP address 10.10.10.1/24

Answer: D