QUESTION 195
Which type of attack is a protocol attack?

A. HTTP flood
B. TFTP flood
C. SYN flood
D. Slowloris

Answer: C
Explanation:

Protocol Attacks

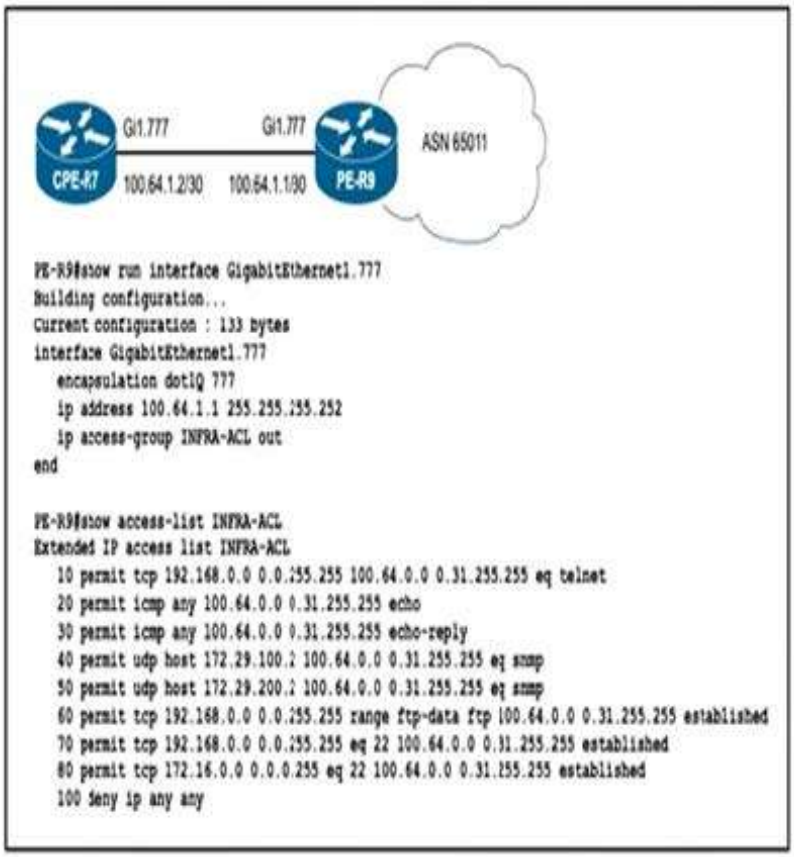
Includes SYN floods, fragmented packet attacks, Ping of Death, Smurf DDoS and more. This type of attack consumes actual server resources,

QUESTION 196
A company needs to improve the use of the network resources that is used to deploy internet access service to customers on separate backbone and internet access network.
Which two major design models should be used to configure MPLS L3VPNs and internet service in the same MPLS backbone? (Choose two.)

A. carriage of full Internet routes in a VPN. in the case of Internet access VPNs
B. Internet routing through global routing on a PE router
C. Internet access routing as another VPN in the ISP network
D. Internet access through leaking of Internet routes from the global table into the L3VPN VRF.
E. Internet access for global routing via a separate interface in a VRF

Answer: CE

QUESTION 197
Refer to the exhibit. To protect in-band management access to CPE-R7, an engineer wants to allow only SSH management and provisioning traffic from management network 192.168.0.0/16. Which infrastructure ACL change must be applied to router PE-R9 to complete this task?



A.
```
ip access-list extended INFRA-ACL
15 permit tcp 192.168.0.0 0.0.255.255 range 49152 65535 100.64.0.0 0.31.255.255 eq 443
```

B.
```
ip access-list extended INFRA-ACL
no 10
15 permit tcp 192.168.0.0 0.0.255.255 eq 22 100.64.0.0 0.31.255.255 eq 22
```

C.
```
ip access-list extended INFRA-ACL
15 permit tcp 192.168.0.0 0.0.255.255 range 49152 65535 100.64.0.0 0.31.255.255 eq 22
```

D.
```
ip access-list extended INFRA-ACL
no 10
15 permit tcp 192.168.0.0 0.0.255.255 range 49152 65535 100.64.0.0 0.31.255.255 eq 22
```

Answer: C

QUESTION 198
An engineer implemented LDP protocol on the ISP network. The engineer must ensure that there are no packet loss issues when IGP and LDP protocols are not synchronized.
Which configuring must the engineer implement so that the IGP routing protocol will wait until LDP convergence is completed?

A. Disable IP CEF on routers running LDP and enable LDP protocol.
B. Configure MPLS LDP IGP synchronization on the network.
C. Configure LDP sessions protection on the network.
D. Disable MPLS LDP IGP synchronization on the network.

Answer: B

QUESTION 199
What is the function of the FEC filed within the OTN signal structure?

A. It allows the sending devices to apply QoS within the OTN forwarding structure.
B. It allows source nodes to discard payload errors before transmitting data on the network.
C. It allows receivers to correct errors upon data arrival.
D. It allows deep inspection of data payload fields.

Answer: C

QUESTION 200
Which two routing protocols support Cisco MPLS TE Tunnels? (Choose two.)

A. IS-IS
B. RIP
C. BGP
D. OSPF
E. EIGRP

Answer: AD

QUESTION 201
Which protocol is used for communication between the PCE and PCC?

A. ICMP
B. PCEP
C. CEF
D. POP

Answer: B

QUESTION 202
An engineer is developing a configuration script to enable dial-out telemetry streams using gRPC on several new devices. TLS must be disabled on the devices.
Which configuration must the engineer apply on the network?

A.
```
telemetry model-driven
  destination-group ciscotest
  address family ipv4 192.168.1.0 port 57500
  encoding self-describing-gpb
    protocol grpc no-tls
    commit
```

B.
```
telemetry model-driven
  destination-group ciscotest
  address family ipv4 192.168.1.0 port 57500
  encoding self-describing-gpb
    protocol grpc
    commit
```

C.
```
telemetry model-driven
  destination-group ciscotest
  address family ipv4 192.168.1.0 port 57500
  encoding self-describing-gpb
    protocol grpc tls-hostname ciscotest.com
    commit
```

D.
```
telemetry model-driven
  destination-group DGroup1
  address family ipv4 172.0.0.0 port 5432
  encoding self-describing-gpb
    protocol tcp
    commit
```

Answer: A

QUESTION 203
A regional MPLS VPN provider operates in two regions and wants to provide MPLS L3VPN service for a customer with two sites in these separate locations. The VPN provider approaches another organization to provide backbone carrier services so that the provider will connect to these two locations.
What is the next step?

A. When edge at different regional sites are connected over the global carrier backbone, MP-eBGP must run between routers to exchange the customer VPNv4 routes.
B. When BGP is used for both route and label exchange, the neighbor a.b.c.d send-label command is used under the address-family VPNv4 command mode.
C. When IGP used for route exchange and LDP for label exchange, MPLS is enabled only on the VRF interface on the backbone-carrier PE side.
D. When eBGP is used for label exchange using the send-label option. MPLS-BGP forwarding is configured under the global ABC CSC PE-to-CE interface.

Answer: A

QUESTION 204
Refer to the exhibit. An engineer is reviewing the BGP configuration.
Which router must be advertised to 10.10.10.1?

```
!
router bgp 65001
 no synchronization
 bgp log-neighbor-changes
 neighbor 10.10.10.1 remote-as 4282
 neighbor 10.10.10.1 distribute-list 1 out
 no auto-summary
!
ip as-path access-list 1 permit ^$
!
```

A. Local routes are permitted, and routes from other ASNs are denied.
B. All routes whether local or from other ASNs are denied.
C. Local routes are denied, and routes from other ASNs are permitted.
D. All routes whether local or from other ASNs are permitted.

Answer: D

QUESTION 205
Refer to the exhibit. AN engineer is configuring segment routing on an ISP to simplify traffic engineering and management across network domains.
What should the engineer do to complete the implementation of segment routing?

```
router ospf 1
 segment-routing mpls
 segment-routing forwarding mpls
```

A. OSPF must be configured with wide area metrics to support segment routing.
B. The segment routing will run without any further configuration.
C. Area authentication must be enable before segment routing will run.
D. The segment-routing forwarding mpls command is required to install to install SIDs in the forwarding table.

Answer: C

QUESTION 206
How is a telemetry session established for data analytics?

A. A router initiates a session using the dial-out mode to a destination.
B. A destination initiates a session to a router.
C. The destination Initiates a session using the dial-out mode to the router.
D. A router requests the data using Telnet.

Answer: C

QUESTION 207
Refer to the exhibit. An engineer is configuring multitiopology IS-IS for IPv6 on router R1.
Which additional configuration must be applied to complete the task?

```
R1# configure terminal
R1(config)# router isis area2
R1(config-router)# metric-style wide level-1
```

A.
```
R1# configure terminal
R1(config)# router isis area2
R1(config-router)# address-family ipv6
R1(config-router-af)# multi-topology
```

B.
```
R1# configure terminal
R1(config)# router isis area1
R1(config-router)# metric-style wide level-2
R1(config-router)# address-family ipv6
R1(config-router-af)# multi-topology
```

C.
```
R1# configure terminal
R1(config)# router isis area2
R1(config-router)# metric-style wide
R1(config-router)# address-family ipv6
R1(config-router-af)# multi topology
```

D.
```
R1# configure terminal
R1(config)# router isis area1
R1(config-router)# metric-style wide level-1
R1(config-router)# address-family ipv6
R1(config-router-af)# multi topology
```

Answer: C

QUESTION 208
Which two PHY modes are available to implement an IOS XR Gigabit Ethernet interface? (Choose two.)

A. nsf Cisco enforce global
B. nsf ietf helper strict-isa-checking
C. nsfletf helper disable
D. nsf Cisco helper disable

Answer: B

QUESTION 209
Refer to the exhibit. A network administrator implemented MPLS LDP changes on PE-A LSR device. The engineer must ensure there are no LDP peer are fully operational.
Which LDP feature must the engineer apply to the existing configuration to eliminate the problem?

```
mpls label range 16 100000 static 100002 1048570
mpls label protocol ldp

mpls ldp gracetul-restart
!
interface Loopback0
!
ip address 10.20.20.20 255.255.255.255
no ip directed-broadcast
no ip mroute-cache
!
interface Gi1/1/0
ip address 10.12.0.2 255.255.0.0
no ip direted-broadcast
mpls label protocol ldp
mpls ip
!
router ospf 100
log-adjacency-changes
nsf cisco enforce global
redistribute connected subnets
network 10.20.20.20 0.0.0.0 area 0
network 10.12.0.0 0.0.255.255 area 0

!
mpls ldp router-id Loopback0 force
```

A. Configure MPLS LDP IGP synchronization on the network.
B. Configure MPLS LDP NSR for all LDP sessions.
C. Enable LDP session protection under the routing protocol.
D. Disable IP CEF on routers LDP and enable

Answer: B
Explanation:
https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/msp/configuration/xe-3s/mp-ha-xe-3s-book/mp-nsr-ldp-supp.pdf

QUESTION 210
After implement MPLS protocol for multiple VRFs on a single Cisco device, the engineer notices all VRFs on the router still do to not LDP session protection feature enabled.

When configuration must the engineer apply to enable the LDP session protection feature FOR LDP neighbors within each VRF?

A. Configure LDP session protection globally on the device only.
B. Configure LDP session protection globally on the device and on each neighbor that requires session protection.
C. Configure LDP session authentication on the device to enable LDP session protection on each VRF automatically
D. Configure LDP session protection within the individual VRFs.

Answer: D

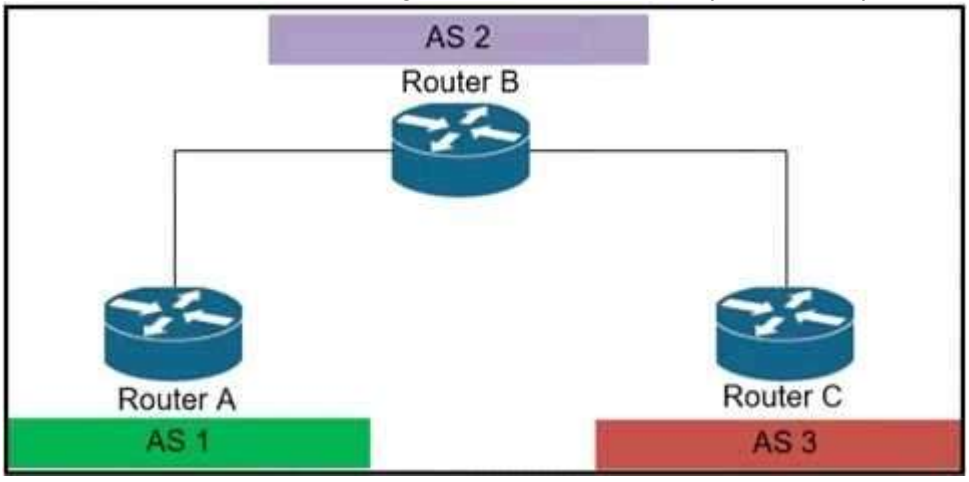
QUESTION 211
Refer to the exhibit. An engineer is securing a customer's network. Which command completes this configuration and the engineer must use to prevent a DoS attack?

```
RP/0/RP0/CPU0:router(config)# router bgp 65534
RP/0/RP0/CPU0:router(config-bgp)# neighbor 192.168.223.7
RP/0/RP0/CPU0:router(config-bgp-nbr)# remote-as 65507
RP/0/RP0/CPU0:router(config-bgp-nbr)#
```

A. neighbor ebgp-multihop
B. ebgp'multihop
C. ttl-security
D. neighbor ttl-security

Answer: C

QUESTION 212
Refer lo the exhibit. An engineer working for private Service Provider with employee id: 3948:11:613 is configuring the BGPsec framework.
Which two conditions must the engineer take into account? (Choose two.)



A. BGPsec uses iPsec tunnel for security.
B. The BGPsec framework secures the AS path.
C. In BGPsec. all route advertisements are given an expiry time by the originator of the route.
D. Private keys are pan of the router key pair used to sign route updates.
E. In BGPsec, route advertisements are not given an expiration time by the originator of the route.

Answer: BC
Explanation:
https://tools.ietf.org/html/rfc8374#section-3.2

QUESTION 213
Which characteristic describes prefix segment identifier?

A. it contains the interface address of the device per each link.
B. It Is globally unique.
C. it is locally unique.
D. It contains a router to a neighbor.

Answer: B

QUESTION 214
Refer to the exhibit. What does the REST API command do?

```
POST https://router1:8000/api/mo/uni/Descriptions.xml
```

A. It displays the information identified by Descriptions.xml.
B. It executes the commands specified in Oescriptioos.xml.
C. It retrieves the information requested by Descriptions.xml.
D. It removes the information identified by Descriptions.xml.

Answer: B

QUESTION 215
Refer to the exhibit. An engineer configured BGP summarization on a customer's network.
Which route is advertised to BGP peers?

```
router bgp 65515
  aggregate-address 192.168.0.0 255.255.0.0 summary-only as-set
```

A. 192.0.0.0/16
B. 192.168.0.0/16
C. 192.168.1.0/24
D. 192168.0.5/30

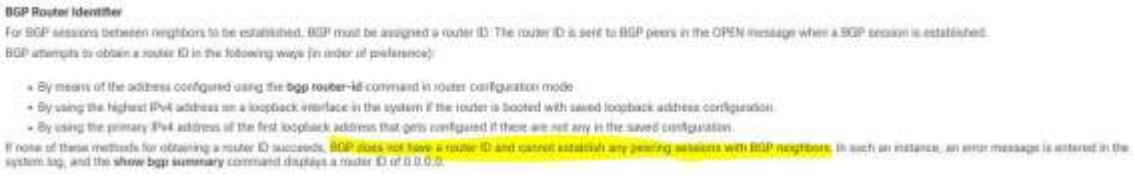
Answer: B

QUESTION 216
Refer to the exhibit. An engineer is trying to implement BGP configuration on a router.
Which configuration error prevents the ASBR from establishing a BGP neighborship to a directly connected BGP speaker?

```
router bgp 100
 address-family ipv4 unicast
 address-family vpnv4 unicast
 !
  neighbor 10.19.20.20
   remote-as 1
   address-family ipv4 unicast
   !
  !
 !
!
commit
!
```

A. The routing policy is absent for this Cisco IOS XR eBGP instance.
B. The IPv4 address family configuration under neighbor configuration-mode must be removed.
C. The VPNv4 address family interferes with the 8GP IPv4 address family negotiations.
D. The TCP session parameters are not specified.

Answer: A
Explanation:
https://www.cisco.com/c/en/us/td/docs/routers/xr12000/software/xr12k_r41/routing/configuration/guide/routing_cg41xr12k_chapter1.html
bgp router-id comes under TCP session parameters


BGP Router Identifier

For BGP sessions between neighbors to be established, BGP must be assigned a router ID. The router ID is sent to BGP peers in the OPEN message when a BGP session is established.

BGP attempts to obtain a router ID in the following ways (in order of preference):

- By means of the address configured using the **bgp router-id** command in router configuration mode
- By using the highest IPv4 address on a loopback interface in the system if the router is booted with saved loopback address configuration
- By using the primary IPv4 address of the first loopback address that gets configured if there are not any in the saved configuration.

If none of these methods for obtaining a router ID succeeds, BGP does not have a router ID and cannot establish any peering sessions with BGP neighbors. In such an instance, an error message is entered in the system log, and the **show bgp summary** command displays a router ID of 0.0.0.0.