Vendor: Cisco

Exam Code:640-878

Exam Name: Building Cisco Service Provider Next-Generation Network

Version: Demo

QUESTION 1

Select and Place:

Drag and drop the troubleshooting issue on the left to the appropriate OSI layer on the right.

high BER	Layer 7
STP port in the "blocked" state	Layer 4
BGP neighbor in the "idle" state	Layer 3
FTP error	Layer 2
TCP sync issue	Layer 1

Correct Answer:

Drag and drop the troubleshooting issue on the left to the appropriate OSI layer on the right.

	FTP error
	TCP sync issue
	BGP neighbor in the "idle" state
	STP port in the "blocked" state
	high BER

QUESTION 2

When is a route-policy configuration needed on a Cisco IOS XR router using RPL?

A. when enabling an IGP routing protocol configuration

B. when enabling an EBGP peering configuration

C. when enabling an IBGP peering configuration

D. when enabling route redistribution

E. when enabling an LDP peering configuration

Correct Answer: B

http://www.cisco.com/en/US/docs/ios_xr_sw/iosxr_r3.7/routing/configuration/guide/rc37rpl.pdf

QUESTION 3

Refer to the exhibit.

```
ipv4 access-list FILTER
 10 permit tcp any 192.168.15.32 0.0.0.15 eq www
 20 deny ipv4 any 192.168.15.32 0.0.0.15
 30 permit ipv4 any any
```

The access list has been configured on the Gi0/0/0/0 interface in the inbound direction. Which four packets that are sourced from 10.1.1.1 TCP port 1060, if they are routed to the Gi0/0/0/0 interface, will be permitted? (Choose four)

A. destination IP address: 192.168.15.37, destination TCP port: 8080

B. destination IP address: 192.168.15.41, destination TCP port: 8080

C. destination IP address: 192.168.15.49, destination TCP port: 8080

D. destination IP address: 192.168.15.36, destination TCP port: 80

E. destination IP address: 192.168.15.46, destination TCP port: 80

F. destination IP address: 192.168.15.49, destination TCP port: 80

Correct Answer: CDEF

QUESTION 4

Refer to the partial configurations exhibit.

```
! ME3400
!
ip routing
!
vlan 10
vlan 20
interface Fa0/1
switchport access vlan 10
interface Fa0/2
switchport access vlan 20
!
```

What additional configurations are required to enable inter-VLAN routing for VLANs 10 and 20 on the Cisco ME 3400 switch using the metro IP access image?

A. interface Fa0/1 ip address 192.168.10.1 255.255.255.0 ! interface Fa0/2 ip address 192.168.20.1 255.255.255.0 !

B. interface Fa0/1 ip address 192.168.10.1 255.255.255.0 ! interface Fa0/2 ip address 192.168.20.1 255.255.255.0 ! router eigrp 1 network 192.168.10.0 network 192.168.20.0 !

C. interface vlan 10 ip address 192.168.10.1 255.255.255.0 ! interface vlan 20 ip address 192.168.20.1 255.255.255.0 !

D. interface Fa0/1 encapsulation dot1q 10 ip address 192.168.10.1 255.255.255.0 ! interface Fa0/2 encapsulation dot1q 20 ip address 192.168.20.1 255.255.255.0 !

Correct Answer: C

QUESTION 5

A customer has been allocated a new VLAN on a new Layer 3 switch. After configuring the Switched Virtual Interface, what additional two configurations are required to ensure the switch can route packets to the Internet through a gateway with IP address of 209.165.200.250? (Choose two.)

A. IP default-gateway 209.165.200.250

B. IP routing

C. IP route 0.0.0.0 0.0.0.0 209.165.200.250

D. IP routing 0.0.0.0 0.0.0.0 209.165.200.250

E. IP networking

Correct Answer: BC

QUESTION 6

Which spanning-tree mode can be used to map several VLANs to a single spanning-tree instance?

A. MST

B. PVST+

C. PVRST+

D. RSTP

Correct Answer: A

QUESTION 7

Refer to the exhibit.

```
Router# configure terminal
Router(config)# router bgp 100
Router(config-router)# network
209.165.200.224 mask 255.255.255.224
Router(config-router)# address-family ipv4
vrf vrf-cisco
Router(config-router-af)# neighbor
10.10.10.10 remote-as 10
Router(config-router-af)# neighbor
10.10.10.10 activate
Router(config-router-af)# end
Router# copy running-config startup-config
```

A network engineer configured BGP PE to CE neighbor sessions with the commands shown. What does \\'address-family ipv4 vrf vrf-cisco\\' from the configuration allow?

A. activates the advertisement of the IPv4 address family

B. defines customer\\'s routing context

C. specifies a network and mask to announce in VRF-Cisco

D. redistribute VRF-Cisco

Correct Answer: B

QUESTION 8

What are three common problems related to sessions not establishing between iBGP neighbors? (Choose three.)

A. Incorrect MAC-address configured

B. Unable to reach IP

C. Network is not configured under router bgp x configuration

D. Access list

E. Firewall blocking all TCP traffic

F. Redistribution is not configured under router bgp x configuration

Correct Answer: BDE

QUESTION 9

ISPs use which protocol to establish peering sessions in an Internet exchange point environment?

A. LDP

B. IS-IS

C. BGP

D. OSPF

Correct Answer: C

QUESTION 10

Refer to the Cisco IOS XR configuration exhibit.


```
!
router isis 1
net 49.0001.0100.0200.1001.00
address-family ipv4 unicast
metric-style wide
address-family ipv6 unicast
metric-style wide
!
```
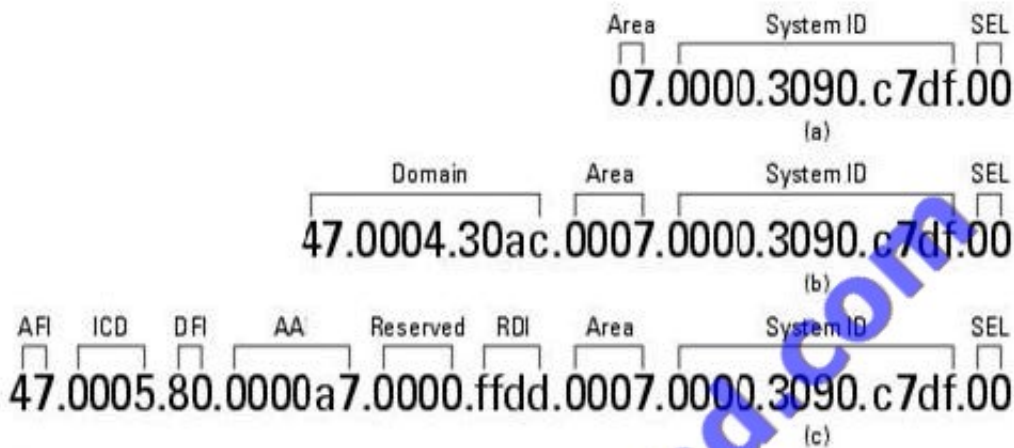
Which statement about the configuration is true?

A. This is a Level-2-only router.

B. This is a Level-1-only router.

C. The maximum IS-IS path metric is 63.

D. This router belongs to area ID 0001.

E. This configuration is missing the net configuration for the IPv6 unicast address family.

Correct Answer: D

http://www.cisco.com/en/US/tech/tk365/technologies_white_paper09186a00800a3e6f.shtml#wp 39875

Three NSAP Formats

07.0000.3090.c7df.00 (a) — Area | System ID | SEL

47.0004.30ac.0007.0000.3090.c7df.00 (b) — Domain | Area | System ID | SEL

47.0005.80.0000a7.0000.ffdd.0007.0000.3090.c7df.00 (c) — AFI | ICD | DFI | AA | Reserved | RDI | Area | System ID | SEL

AFI: Authority and Format Identifier
ICD: International Code Designator
DFI: Domain Specific Part (DSP) Format Identifier
AAI: Administrative Authority Identifier
RDI: Routing Domain Identifier (Autonomous System Number)
SEL: Network Service Access Point (NSAP) Selector

If an official prefix is not required, you can use AFI 49, which denotes private address space, like IP address space for private Internets as defined in RFC 1918.

The AFI has a binary value between 0 and 99; this value specifies the IDI format and the DSP syntax. The DSP is in binary format, and the IDP is in decimal. ISO recognizes seven top-level network addressing authorities; each authority has its own addressing format represented by the IDI format field.

Cisco technology supports all NSAP formats that are defined by ISO 8348/Ad2.

It is possible to configure multiple NETs on a router, but no router is ever in more than one area. Configuring multiple NETs causes the areas to merge into a common area, leaking the Level 1 databases into each other. The only reasons to have multiple NETs are for splitting, merging, or renumbering areas; this method should only be used in periods of transition. Cisco Systems limits the number of configurable NETs to three per router.

QUESTION 11

Refer to the Cisco IOS XR commands exhibit.

```
RP/0/RSP0/CPU0:PE7#install activate disk0:asr9k-video-p-4.1.0
                                                           ^
% Invalid input detected at '^' marker.

RP/0/RSP0/CPU0:PE7#show user all
Tue Sep 20 21:39:00.331 UTC
Username: admin
Groups: root-system
<output omitted>
```

The router administrator is trying to activate a software package on the router but is not able to do so. Which statement about this problem is true?

A. The router needs to be in the global configuration mode.

B. The router needs to be in the admin global configuration mode.

C. The router needs to be in the admin EXEC mode.

D. The install activate command is not the correct command to use.

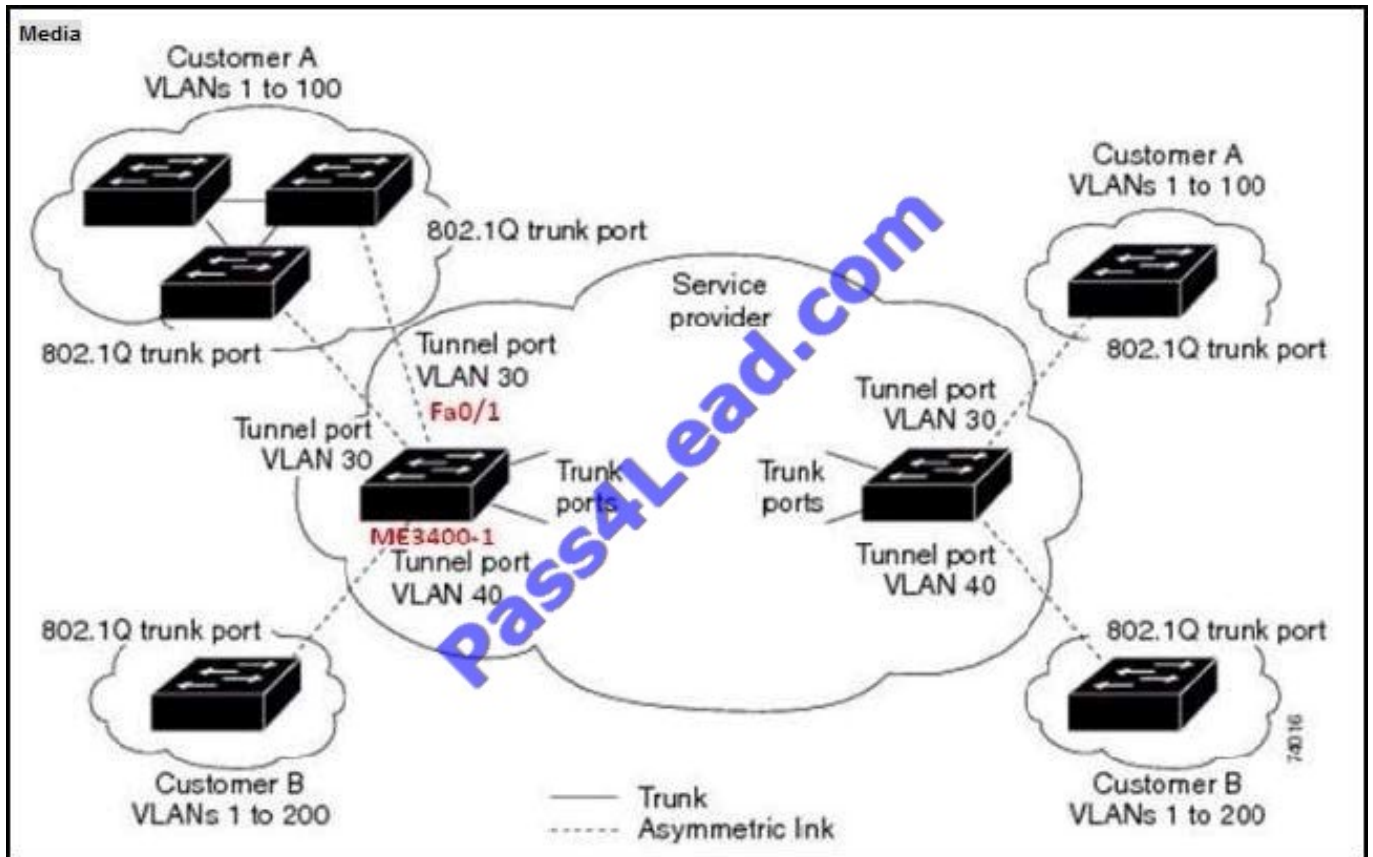E. The administrator needs to log in as the "root" user instead of the "admin" user.

Correct Answer: C

http://www.cisco.com/en/US/docs/ios_xr_sw/iosxr_r2.0/getting_started/installation/guide/gs_pac k.pdf

install activate *device:package*	Activates the package functionality on the router.
Example: RP/0/RP0/CPU0:router# install activate disk0:hfr-k9sec-1.0.0	- In a package upgrade scenario, the newer version of the package will be activated, and the older version will be automatically deactivated. - In a package downgrade scenario, the older version of the package will be activated and the newer version will be automatically deactivated. - Actual activation is done after package compatibility checks have all passed.

QUESTION 12

Refer to the topology diagram in the exhibit.

Which two interface configuration commands on the Cisco ME 3400-1 switch Fa 0/1 interface are required to support the VLANs for Customer A to be trunked across the service provider network? (Choose two.)

A. switchport access vlan 30

B. switchport mode trunk

C. switchport mode dot1q-tunnel

D. switchport trunk allowed vlan 1-100

Correct Answer: AC

http://www.cisco.com/en/US/docs/switches/metro/me3400/software/release/12.2_25_ex/configur ation/ guide/swtunnel.html

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