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**QUESTION 1**

After configuring Q-in-Q on a new interface, the customer has requested that the IOS version and remote model also be viewable via the trunk. What additional command would need to be applied to both sides of the Q-in-Q trunk?

- A. l2protocol-tunnel cdp
- B. l2protocol-tunnel stp
- C. l2protocol-tunnel vtp
- D. l2protocol-tunnel lldp
- E. l2protocol-tunnel odr

Correct Answer: A

QUESTION 2

On Cisco IOS XR software, which set of commands enables OSPF area 0 on the Gi0/0/0/0 interface that has an IPv4 IP address of 192.168.1.1/24?

- A. router ospf 1 network 192.168.1.1 0.0.0.0 area 0
- B. router ospf 1 network 192.168.1.1 255.255.255.255 area 0
- C. router ospf 1 area 0 interface gi0/0/0/0
- D. router ospfv3 1 network 192.168.1.1 0.0.0.0 area 0
- E. router ospfv3 1 network 192.168.1.1 255.255.255.255 area 0
- F. router ospfv3 1 area 0 network 192.168.1.0
- G. router ospfv3 1 area 0 interface gi0/0/0/0

Correct Answer: C

QUESTION 3

Which Cisco IOS access list permits HTTP traffic that is sourced from host 10.1.129.100 port 3030 and that is destined to host 192.168.1.10?

- A. access-list 101 permit tcp any eq 3030
- B. access-list 101 permit tcp 10.1.128.0 0.0.1.255 eq 3030 192.168.1.0 0.0.0.15 eq www
- C. access-list 101 permit tcp 10.1.129.0 0.0.0.255 eq www 192.168.1.10 0.0.0.0 eq www
- D. access-list 101 permit tcp host 192.168.1.10 eq 80 10.1.0.0 0.0.255.255 eq 3030



E. access-list 101 permit tcp 192.168.1.10 0.0.0.0 eq 80 10.1.0.0 0.0.255.255

F. access-list 101 permit ip host 10.1.129.100 eq 3030 host 192.168.1.100 eq 80

Correct Answer: B

QUESTION 4

Which three are common ISP access network technologies? (Choose three.)

A. DSL

B. Cable modem

C. DWDM

D. MPLS

E. PON

F. MP-BGP

Correct Answer: ABE

<http://blog.ioshints.info/2010/02/passive-optical-networks.html> - PON

QUESTION 5

Within an MPLS domain, which table is used by the label switch routers to make forwarding decisions when a labeled packet is received?

A. FIB

B. RIB

C. LFIB

D. LIB

E. CEF

Correct Answer: C

http://www.cisco.com/en/US/docs/ios-xml/ios/mp_ldp/configuration/12-4m/mp-ldp-12-4m-book.pdf

QUESTION 6

Cisco IP NGN service providers can offer multiple services to their customers by using which type of technology in their core networks?



- A. ATM
- B. SONET/SDH
- C. Frame Relay
- D. IP/MPLS
- E. PBB

Correct Answer: D

QUESTION 7

Which type of service provider is responsible for offering backbone connectivity services to other service providers?

- A. CSP
- B. TSP
- C. NSP
- D. ISP
- E. ASP

Correct Answer: C

[http://www.cisco.com/web/about/ac79/docs/wp/sp/Service_Providers_as_Cloud_Providers_IBS G.pdf](http://www.cisco.com/web/about/ac79/docs/wp/sp/Service_Providers_as_Cloud_Providers_IBS_G.pdf)

QUESTION 8

Which commands will configure the spanning tree operating mode that can group multiple VLANs in a single domain?

- A. switch(config)#spanning-tree mode pvst
- B. switch(config)#spanning-tree mode rstp
- C. switch(config)#spanning-tree mode rapid-pvst
- D. switch(config)#spanning-tree mode mst
- E. switch(config)#spanning-tree mode mst-plus

Correct Answer: D

QUESTION 9

What is dual IOS mode on the Cisco ASR 1001 Router?

- A. redundant IOS processes that are running on the active RP and standby RP



- B. active and standby IOS processes that are running on a single RP
- C. separate Cisco IOS XE and IOS XR processes that are running on a single RP
- D. separate Cisco IOS XE and IOS XR processes that are running on two different RPs
- E. checkpointed redundant IOS processes that are running on two different RPs in active/active mode

Correct Answer: B

Redundancy Requirements				
Chassis	Inbox Redundancy Type	Default Memory	Minimum Memory For Redundancy	Redundancy Feature License
ASR1001	SW No ISSU*	4G	8G	FLSASR1-IOSRED(=) or L-FLSASR1-IOSRED=
ASR1002	SW No ISSU*	4G	4G	FLASR1-IOSRED-RTU(=)
ASR1002-X	SW No ISSU*	4G	8G	FLSASR1-IOSRED(=) or L-FLSASR1-IOSRED=
ASR1004	SW No ISSU*	RP1/RP1-N 4G, RP1-N, RP2 8G	RP1/RP1-N 4G, RP2 16G	FLASR1-IOSRED-RTU(=)
ASR1006	HW ISSU**	RP1/RP1-N 4G, RP1-N, RP2 8G	RP1/RP1-N 4G, RP2 16G	N/A
ASR1013	HW ISSU**	RP2 8G	RP2 16G	N/A

* Supports dual Cisco IOS Software redundancy.

** Supports hardware route processor and ESP redundancies, but does not support software redundancy.



QUESTION 10

During the BGP route selection process on Cisco routers, which BGP attribute is examined first, to determine the best path to use?

- A. AS path
- B. MED
- C. local preference



D. weight

E. origin

Correct Answer: D

QUESTION 11

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 12

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/guide_gs_pac k.pdf



install activate *device:package*

Example:

```
RP/0/RP0/CPU0:router# install activate  
disk0:hfr-k9sec-1.0.0
```

Activates the package functionality on the router.

- 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.





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