Cisco

Exam 640-878

Building Cisco Service Provider Next-Generation Networks, Part 2

Version: 9.0

[Total Questions: 126]

Question No : 1 DRAG DROP

Topology:

Answer:

Question No : 2

On the Cisco ME 3400 switch, spanning tree is enabled by default on which type of switch port?

A. UNI
B. ENI
C. NNI
D. ENI and NNI
E. UNI, ENI, and NNI

Answer: C

Explanation: Explanation/Reference:

http://www.cisco.com/en/US/docs/switches/metro/me3400/software/release/12.2_25_seg_s eg1/configuration/guide/swstpopt.html#wp1002608

Question No : 3 DRAG DROP

Answer:

Question No : 4 DRAG DROP

Answer:

Question No : 5

What do both Carrier Grade NAT and NAT64 have in common?

A. both are only used in carrier networks
B. both are used for tunneling IPv6 in an IPv4 network
C. both require the use IPv6
D. both are methods for avoiding IPv4 address exhaustion

Answer: D

Question No : 6

Refer to the configuration snippet below. A new IOS-XR router is being added to the network. What command is required to enable the Label Distribution Protocol on interface GigabitEthernet 0/3/0/0?

Configuration:

mpls ldp

router-id 209.165.200.226

A. interface GigabitEthernet0/3/0/0
mpls ldp
B. mpls ldp
interface GigabitEthernet0/3/0/0
C. interface GigabitEthernet0/3/0/0

ldp enable
D. ldp
interface GigabitEthernet0/3/0/0

Answer: B

Question No : 7 HOTSPOT

Answer:

Question No : 8 HOTSPOT

Answer:

Question No : 9

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

Answer: A

Question No : 10

Refer to the exhibit.

Which three statements about MPLS LDP operations are true?

A. The incoming label for 10.2.10.1/32 is 16010 (which is allocated by the local router), and the outgoing label is 22 (as advertised by the next-hop router).
B. The 16003 and 16010 labels are learned from the 192.168.112.40 LDP neighbor.
C. The ImpNull outgoing label for the 192.168.102.0/24 network means that the outgoing label should be removed when sending packets to the 192.168.112.40 next-hop router, when the incoming label is 16003.
D. The ImpNull outgoing label for the 192.168.102.0/24 network means that the local router has not received a label for that network from its neighbor.
E. The Unlabeled outgoing label for 10.10.10.100/32 indicates that a label pop is required when sending packets to the 10.10.10.1 next-hop router.
F. The outgoing label of 22 for 10.2.10.1/32 is learned from the 192.168.112.40 LDP neighbor.

Answer: A,C,F

Explanation: Explanation/Reference:
http://www.cisco.com/en/US/docs/ios/12_2t/12_2t2/feature/guide/ldp_221t.html

Question No : 11

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

A. DSL
B. Cable modem
C. DWDM
D. MPLS
E. PON
F. MP-BGP

Answer: A,B,E

Explanation: Explanation/Reference:

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

Question No : 12

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

Answer: C

Explanation: Explanation/Reference:

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

Question No : 13 DRAG DROP

Topology Diagram:

Answer:

Question No : 14

Which three Cisco platforms are classified as core routers? (Choose three.)

A. Cisco XR 12000
B. Cisco ME 3400
C. Cisco ASR 1006
D. Cisco CRS-3
E. Cisco ASR 9010
F. Cisco 3900

Answer: A,D,E

Explanation: Explanation/Reference:

Both the ASR 9010 and ASR 9006 routers are designed with key capabilities to help deliver the services of tomorrow. Providing increased bandwidth capabilities for network devices at economically viable prices is one of the primary criteria for true carrier-transport platforms.While traditional service prices continue to decline, the Cisco ASR 9000 Series helps establish a new financial reality by facilitating reliable and scalable video, nextgeneration mobile aggregation, and advanced Carrier Ethernet service offerings.

The Cisco® XR 12000 Series and Cisco 12000 Series routers compose a portfolio of intelligent routing solutions that scale from 2.5- to n x10 Gbps capacity per slot, enabling carrier-class IP/Multiprotocol Label Switching (MPLS) networks and accelerating the evolution to IP Next-Generation Networks. Built upon a foundation of investment protection, this portfolio delivers up to 1.28-terabits-per-second switching capacity with wire-speed feature performance, scalability, and graceful hardware and software upgrade paths.

Question No : 15 DRAG DROP

Answer:

Question No : 16

What are two legitimate IPv4 to IPv6 migration technologies? (Choose two.)

A. Lift and shift
B. Dual stack backbones
C. In IPv4 / Out IPv6
D. IPv6 over IPv4 tunneling
E. IPv6 phasing

Answer: B,D

Question No : 17

Refer to the Cisco IOS XR commands exhibit.

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.

Answer: C

Explanation: Explanation/Reference:

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

Question No : 18

Refer to the exhibit.

A network engineer implemented these configurations. However, Intermediate System-to-Intermediate System (IS-IS) neighbors are unable to establish. What is the reason for this error?

A. missing router IS-IS x command
B. missing IP router IS-IS command
C. missing network mask
D. missing network statement
E. missing MTU matching value

Answer: B

Question No : 19

Refer to the Cisco IOS XR configuration exhibit.

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.

Answer: D

Explanation: Explanation/Reference:
http://www.cisco.com/en/US/tech/tk365/technologies_white_paper09186a00800a3e6f.shtml#wp39875

CERTKILL

Question No : 20

Which number range is allocated to private Autonomous Systems by the Internet Assigned Numbers Authority?

A. 65535 to 65545
B. 64535 to 64536
C. 64512 to 65535
D. 65535 to 66001
E. 63512 to 64535

Answer: C

Question No : 21

Refer to the show command exhibit.

Which statement is true?

A. It shows the result of the target configuration merged with the running configuration.
B. It shows the contents of the uncommitted configuration.
C. It shows the contents of the failed configuration.
D. It shows the contents of the running configuration.

Answer: B

Explanation: Explanation/Reference:

http://www.cisco.com/en/US/docs/ios_xr_sw/iosxr_r3.6/system_management/command/reference/yr36conf.pdf

To display information about the current configuration session (target configuration), use the show configuration command in any configuration mode.

show configuration [merge] [running]