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**Exam** : **350-029**

**Title** : CCIE SP Written Exam, V3.0

**Vendor** : Cisco

**Version** : DEMO

NO.1 Which three options are functions of the Cisco Service Control Engine? (Choose three.)

- A. intelligent inspection and control of IP packets
- B. application of session-level bandwidth shaping
- C. provisioning of access aggregation
- D. per-subscriber bandwidth management
- E. Implementation of VPN services

**Answer:** A,B,D

NO.2 An engineer is looking into a solution for two customers that are using the network prefix 10.10.1.0/24. The network engineer wants the network prefix to remain the same for both customers, while maintaining unique network information for each. Which approach can be used to achieve this requirement?

- A. Assign a unique RD per customer.
- B. Assign a unique RT per customer.
- C. Assign a unique SOO per customer.
- D. Assign a unique TE per customer.

**Answer:** A

NO.3 Which three attribute-value pairs (AVPs) must be present in L2TPv3 ICRO messages? (Choose three.)

- A. PW capabilities list
- B. Message type
- C. Assigned control connection ID
- D. PW type
- E. Remote session ID
- F. Hostname

**Answer:** B,D,E

Explanation:

The ICRO can include information such as pseudowire type, required Layer 2 specific sublayer, and circuit status.

The following AVPs MUST be present in the ICRO: Message Type Local Session ID Remote Session ID Serial Number Pseudowire Type Remote End ID Circuit Status Services

NO.4 Which MPLS technology will achieve LAN extensions over the service provider backbone?

- A. AToM
- B. VPLS
- C. L2VPN
- D. L2TPv3

**Answer:** B

NO.5 Which statement about OSPF authentication is true?

- A. To enable OSPF authentication in a network, OSPF area 0 authentication must be enabled first.
- B. The payload of OSPFv3 packets contains no authentication information.

- C. OSPFv3 supports Advanced Encryption Standard
- D. OSPFv3 uses router ID as a key to encrypt OSPF hello packets.
- E. OSPF MD5 authentication uses TCP, and Plan Test authentication uses UDP.

**Answer:** B

#### NO.6 DRAG DROP

Drag the command on the left to the correct step on the right to perform Frame Relay interworking with Ethernet over MPLS on a Cisco IOS router.

encapsulation mpls	Step 1
connect name serial-interface DLCI I2transport	Step 2
frame-relay switching	Step 3
xconnect IP address circuit-id pw-class name	Step 4
pseudowire-class name	Step 5
interworking	Step 6

**Answer:**

Drag the command on the left to the correct step on the right to perform Frame Relay interworking with Ethernet over MPLS on a Cisco IOS router.

encapsulation mpls	frame-relay switching
connect name serial-interface DLCI I2transport	pseudowire-class name
frame-relay switching	encapsulation mpls
xconnect IP address circuit-id pw-class name	interworking
pseudowire-class name	connect name serial-interface DLCI I2transport
interworking	xconnect IP address circuit-id pw-class name

NO.7 Which two IOS commands are equivalents for putting a Cisco 7500 OC-12 RPR interface card into wrapped mode? Select all that apply

- A. shutdown [a | b]
- B. srp shutdown [a | b]
- C. srp ips request manual-switched [a | b]

**Answer:** B,C

NO.8 What bit should be set in the link state PDUs in an IS-IS level-1-2 router to indicate that they are a potential exit point out of the area?

- A. ATT (Attached) bit
- B. ABR (Area Border Rorter) bit
- C. PN (Pseudonode) bit
- D. P (Partition) bit
- E. Down bit
- F. IS-Type bit

**Answer:** A

NO.9 Which two network management models are supported by IPoDWDM? (Choose two.)

- A. virtual transponder protocol management
- B. segmented management
- C. integrated management
- D. traffic management
- E. slow outages management

**Answer:** B,C

NO.10 Forwarding Equivalence Class (FEC) corresponds to which four of these? (Choose four).

- A. Layer 2 circuits (ATM, FR, PPP, HDLC, Ethernet)
- B. Groups of addresses/sites-VPN
- C. IPSEC Encryption Algorithm
- D. A bridge/switch instance-VSI
- E. Tunnel interface-traffic engineering

**Answer:** A,B,D,E

NO.11 There are two cabling schemes to choose from when implementing a Cisco CRS-1 multi shelf system: single module cabling and multi module cabling. What is the maximum capacity of the LCCs that are supported in multi module cabling?

- A. 9 LCCs
- B. 7 LCCs
- C. 10 LCCs
- D. 6 LCCs
- E. 8 LCCs

**Answer:** A

Explanation:

1.4. SP high end product A single card or multiple cards can be grouped as a fabric plane. Single-module cabling requires eight S2 cards in the fabric card chassis. In this mode, each S2 is dedicated to a plane number and cabled to the appropriate line card chassis plane. If your network requires more than three LCC in the multi shelf system, this is achieved using the multi module configuration. Multi module configuration provides capacity to add up to nine LCCs.

NO.12 Which option is the SONET frame format of the STM-4 SDH circuit?

- A. STS-1
- B. STS-192
- C. STS-12
- D. STS-3

**Answer:** C

NO.13 Which carrier-grade IPv6 technology helps with IPv4 address depletion?

- A. dual stack and NAT444
- B. NAT444 and 6RD

- C. NAT444 and DS-Lite
- D. 6RD and DS-Lite

**Answer:** C

NO.14 Which four of these statements are restrictions for Frame Relay PVC bundles with QoS support for IP and MPLS? (Choose four)

- A. A PVC bundle will not come up unless all the precedence, DSCP, and EXP levels are configured in the bundle.
- B. A PVC bundle can perform precedence and DSCP matching at the same time
- C. A PVC bundle may contain no more than sixteen PVCs
- D. A PVC can be in only one PVC bundle
- E. A PVC bundle cannot perform precedence and DSCP matching at the same time.
- F. A PVC bundle may contain no more than eight PVCs.

**Answer:** A,D,E,F

Reference:

[http://www.cisco.com/en/US/docs/ios/12\\_2t/12\\_2t13/feature/guide/ft\\_frbnd.html#wp102717](http://www.cisco.com/en/US/docs/ios/12_2t/12_2t13/feature/guide/ft_frbnd.html#wp102717)  
Restrictions for Frame Relay PVC Bundles with QoS Support for IP and MPLS

A PVC can be a part of one and only one PVC bundle.

A PVC bundle may contain no more than eight PVCs.

A PVC that is a bundle member cannot be used in any other capacity, For example a PVC bundle member cannot be configured in a map statement.

A PVC bundle cannot perform precedence and DSCP matching at the same time. If the wrong matching scheme is configured, unpredictable behavior will result.

A PVC bundle will not come up unless all the precedence, DSCP, or EXP levels are configured in the bundle.

Voice over Frame Relay (VoFR) is not supported on PVC-bundle members.

Fast switching over Frame Relay PVC bundles is not supported.

NO.15 What is the typical marked DSCP value for a voice media packet in Voice over IP technology?

- A. AF41
- B. AF31
- C. AF21
- D. BE
- E. EF

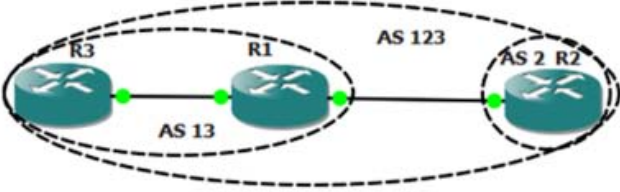
**Answer:** E

NO.16 An engineer is designing a SONET network using Cisco 7600 and the ONS 15454 platform. Which Cisco 7600 module allows for three 45 Mbps serial interfaces?

- A. OC-12c/STM-4c ATM
- B. OC-12/STM4 to DS3/E3
- C. OC-3c/STM-1 POS/SDH
- D. OC-12c/STM-4 POS/SDH

**Answer:** B

NO.17 Refer to the exhibit.



```

router bgp 13
  bgp confederation identifier 123
  bgp confederation peers 2
  bgp suppress-inactive
  network 11.11.11.11 mask 255.255.255.255
  neighbor 10.10.12.2 remote-as 2
  neighbor 10.10.12.2 advertise-map SUBNET_A non-exist-map SUBNET_B
  neighbor 10.10.13.3 remote-as 13

ip prefix-list SUBNET_A seq 5 permit 33.33.33.33/32
ip prefix-list SUBNET_B seq 5 permit 11.11.11.11/32

route-map SUBNET_A permit 10
  match ip address prefix-list SUBNET_A
route-map SUBNET_B permit 10
  match ip address prefix-list SUBNET_B

R1#show ip bgp 33.33.33.33
BGP routing table entry for 33.33.33.33/32, version 6
Paths: (1 available, best #1, table Default-IP-Routing-Table, RIB-
failure(17))
  Not advertised to any peer
  Local
    10.10.13.3 from 10.10.13.3 (33.33.33.33)
      Origin IGP, metric 0, localpref 100, valid, confed-internal, best

R1#show ip route 33.33.33.33
Routing entry for 33.33.33.33/32
  Known via "ospf 1", distance 110, metric 11, type intra area
  * 10.10.13.3, from 10.10.13.3, 00:02:42 ago, via FastEthernet0/1

R1#show ip route 11.11.11.11
Routing entry for 11.11.11.11/32
  Known via "connected", distance 0, metric 0 (connected, via interface)

R2#show ip bgp 33.33.33.33
% Network not in table

```

Based on the topology, the BGP configuration in R1, and the outputs from R1 and R2; identify why was subnet 33.33.33.33/32 not received on the R2 BGP table?

- A. R2 is not a route reflector client for R1.
- B. R1 is configured to suppress all inactive (RIB failure) routes.
- C. The 33.33.33.33/32 subnet must be learned through BGP.
- D. The 11.11.11.11/32 subnet exists in the routing table.

**Answer:** D

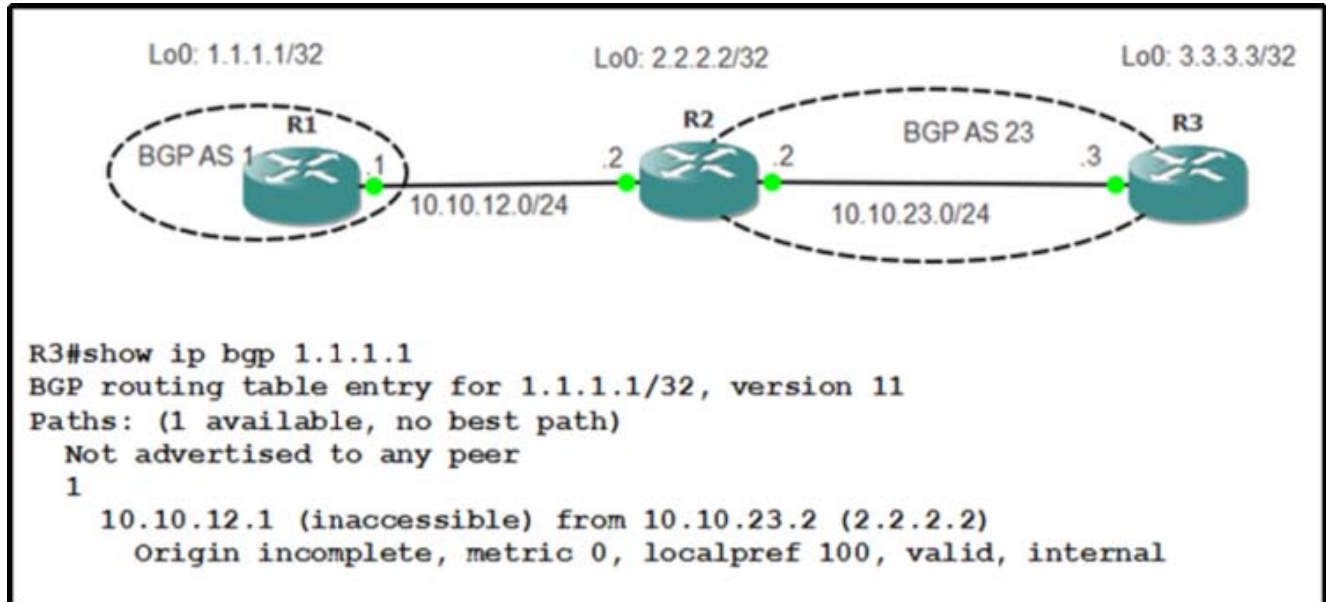
NO.18 The SP core supports PIM-SM for multicast traffic, but one of these routers is not able to see one of its PIM neighbors. What is the most likely cause of this issue?

- A. The router is an RP with high priority.
- B. IGMP snooping is not enabled.
- C. PIM sparse mode is not enabled on a participating multicast interface.

- D. PIM protocols are not enabled in global configuration mode.  
E. Auto-RP is not enabled on this network.

**Answer: C**

NO.19 Refer to the exhibit.



R3 is not able to install the R1 loopback address into its BGP routing table. What should be configured to install that route?

- A. Configure R2 as a route reflector.  
B. Enable EBGP multihop on R2.  
C. Change the origin attribute to IGP on R3.  
D. Configure the next-hop-self command on R2.  
E. Configure the next-hop-unchanged command on R2.  
F. Add a static route to reach 10.10.23.2 on R3.

**Answer: D**

NO.20 What is the port number of the IPsec Authentication Header packet?

- A. IP protocol 50  
B. TCP port 51  
C. UDP port 50  
D. IP protocol 51  
E. UDP port 51  
F. TCP port 50

**Answer: D**

Explanation:

6.2. Managed Security services traversing the core AH operates directly on top of IP, using IP protocol number 51. ESP operates directly on top of IP, using IP protocol number 50.