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QUESTION 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

Correct Answer: ABD

QUESTION 2

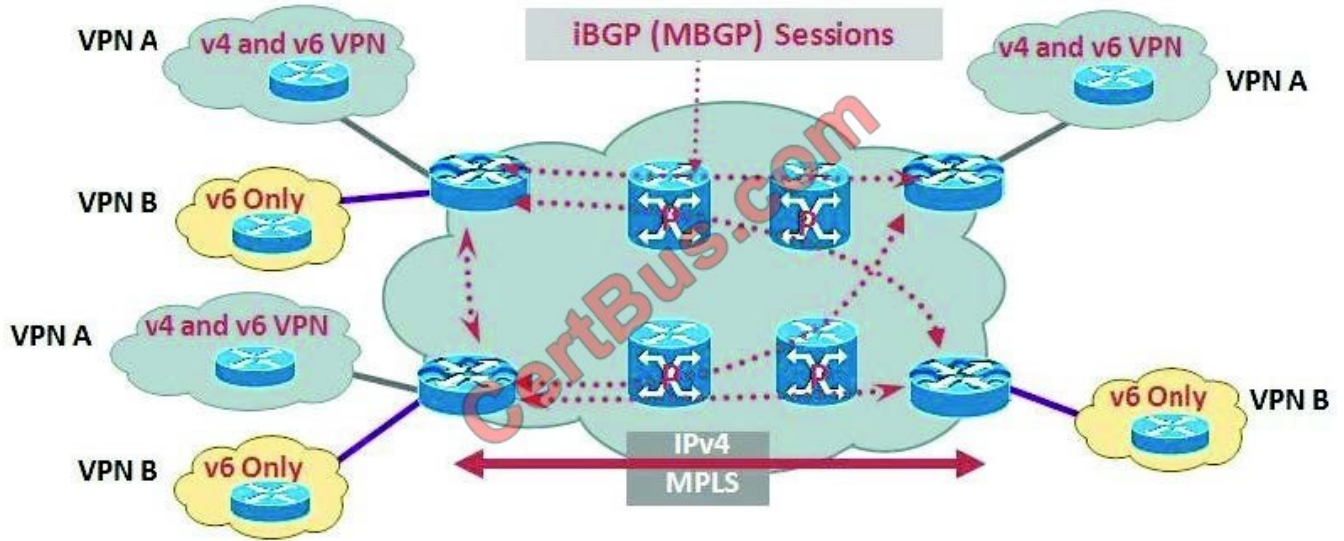
Which three of these options can be a forwarding equivalence class? (Choose three.)

- A. groups of IP addresses
- B. bridge or switch instance
- C. traffic engineering tunnel
- D. IPsec tunnel
- E. routing equivalence paths
- F. a bgp prefix

Correct Answer: ABC

QUESTION 3

Refer to the exhibit.



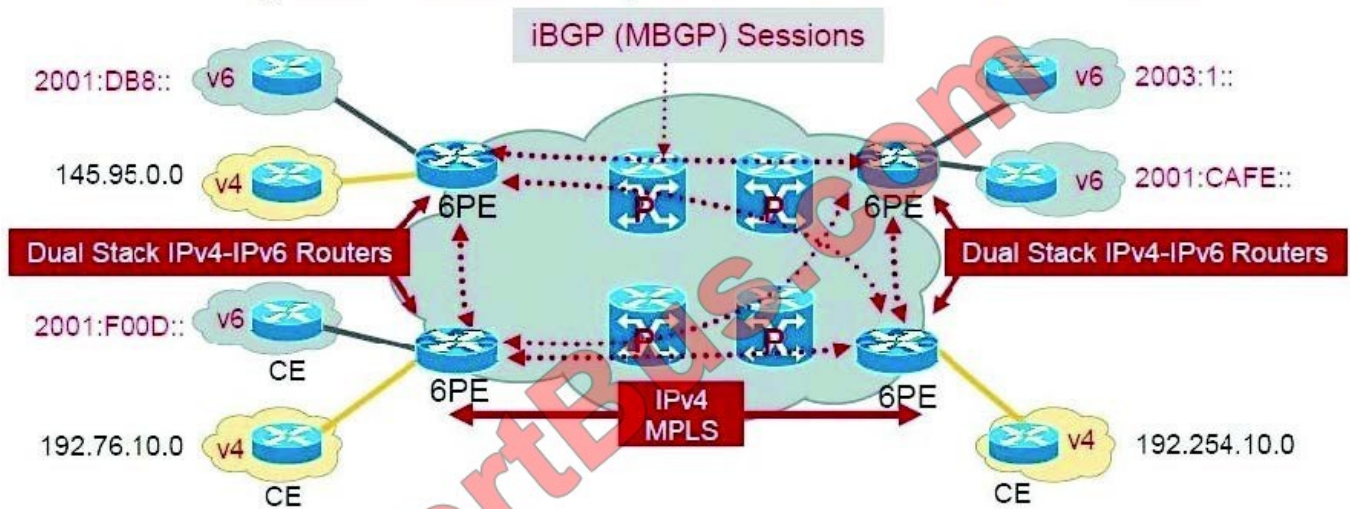
Which IPv6 deployment feature is displayed?

- A. MPLS 6PE
- B. MPLS 6VPE
- C. 6 to 4 Replay Service
- D. native IPv6 over MPLS
- E. 6 to 4 Tunnel

Correct Answer: B

IPv6 Provider Edge Router (6PE) over MPLS

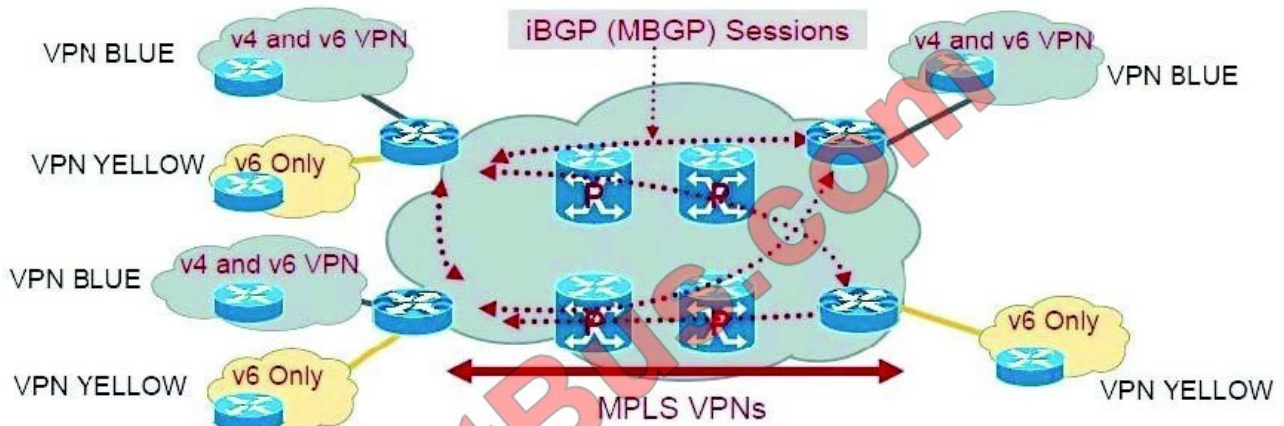
IPv6 global connectivity over and IPv4-MPLS core



- 6PEs must support dual stack IPv4+IPv6 (6PE)
- IPv6 addresses exist in global table of PE routers only
- IPv6 reachability exchanged among 6PEs via iBGP (MP-BGP)
 - IPv6 AF (2) + Label SAFI (4) used to exchange prefixes between PEs
- IPv6 packets transported from 6PE to 6PE inside MPLS (label switching)
- Core uses IPv4 control plane (LDPv4, TEv4, IGPv4, MP-BGP)

6VPE: BGP-MPLS VPN extension for IPv6 (RFC 4659)

Layer-3 VPNs for IPv6 customers



Apply all RFC4364bis mechanisms to IPv6 VPNs:

- IPv6-VPN reachability exchanged among PEs via MP-BGP
- New BGP address family: AFI=2 (IPv6), SAFI=128 (VPN)
 - NLRI in the form of <length, VPN-IPv6-prefix, label>
 - 192bits Address (24 Byte) including the 64 bits route distinguisher (8 Bytes) and the 128 bits IPv6 address (16 Bytes) **<RD:IPv6>**
 - Nexthop is carried as RD:v4-mapped-v6-address
- VRFs, RT, SOO, RRs,...operate exactly as with IPv4-VPN IPv6 packets

QUESTION 4

Which of the following processes are likely to be found in a microkernel?

- A. Memory management
- B. Lightweight messaging
- C. Process scheduling
- D. Hardware abstraction
- E. Host stack
- F. All of the above

Correct Answer: F

QUESTION 5

A company plans to secure its connectivity over its provider. Which method can reduce overhead and provide encryption for Layer 2 over the provider cloud?

- A. MACsec
- B. IPsec
- C. L2VPN with 802.1X extensions
- D. L2TPv3

Correct Answer: A

QUESTION 6

Which of the following events can NOT be tuned via router configuration to provide for faster convergence following a link failure?

- A. Failure detection
- B. IGP LSP/LSA origination
- C. Per-hop flooding time of new link state
- D. Number of hops that need to be notified of new link state
- E. Failure reporting

Correct Answer: D

QUESTION 7

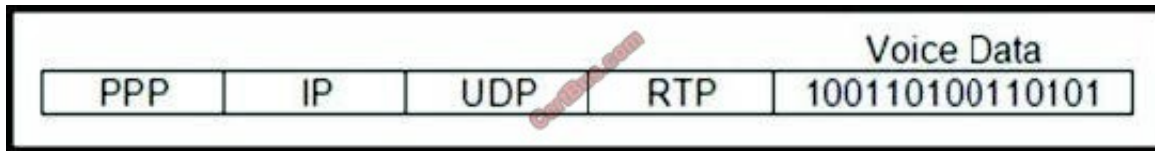
What is the port number of an IPSec Encapsulating Security Payload packet?

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

Correct Answer: A

QUESTION 8

Refer to the exhibit.



RTP header compression is used on the link for the voice packet. If the header overhead starts reducing at 70%, and is reduced to the maximum amount, what will the overhead percentage be?

- A. 0.22
- B. 0.33
- C. 0.44
- D. 0.55

Correct Answer: A

QUESTION 9

In the case of 6RD, how does the residential gateway device route the IPv6 packet received from local host?

- A. It looks into the local NAT table to translate the IPv6 address into an IPv4 address.
- B. It looks for the IPv6 destination in the local IPv6 routing table.
- C. It sends all the IPv6 traffic to the Border Relay router.
- D. It derives the IPv4 address from the IPv6 destination address.

Correct Answer: D

QUESTION 10

Which two statements about 10 Gigabit Ethernet (10GE) are true? (Choose two.)

- A. 10 Gigabit Ethernet does not support VLAN definition
- B. 10 Gigabit Ethernet supports full duplex links, but does not support half duplex links.
- C. 10 Gigabit Ethernet supports unshielded or shielded twisted-pair cable connections
- D. 10 Gigabit Ethernet supports Carrier Sense Multiple Access with Collision Detection (CSMA/CD).
- E. 10 Gigabit Ethernet supports optical fiber connections in single mode only. Multi mode is not supported.

Correct Answer: BC

QUESTION 11

Refer to the exhibit.

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.

Correct Answer: D

QUESTION 12

SONET's three layers are. (Choose three.)

- A. DS1
- B. Frame
- C. Path
- D. Line
- E. Section

Correct Answer: CDE

SONET Layers SONET divides the overhead and transport functions into three layers: Section Line

Path

These three layers are associated with both the physical equipment that segments the network and the bytes of information that flows through the network elements.

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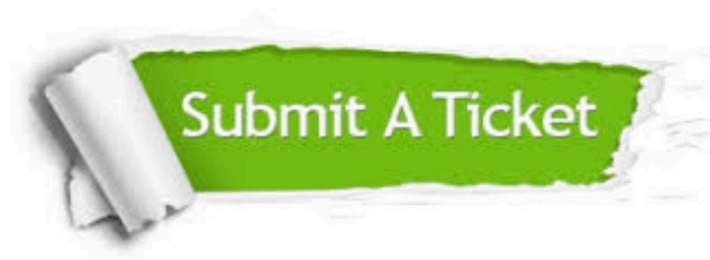
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