Exam Number/Code:300-101

Exam Name: Implementing Cisco IP Routing

Version: Demo

QUESTION: 1

A router with an interface that is configured with ipv6 address autoconfig also has a link-local address assigned. Which message is required to obtain a global unicast address when a router is present?

A. DHCPv6 request
B. router-advertisement
C. neighbor-solicitation
D. redirect

Answer: B

QUESTION: 2

An engineer has configured a router to use EUI-64, and was asked to document the IPv6 address of the router. The router has the following interface parameters:

mac address C601.420F.0007

subnet 2001:DB8:0:1::/64

Which IPv6 addresses should the engineer add to the documentation?

A. 2001:DB8:0:1:C601:42FF:FE0F:7
B. 2001:DB8:0:1:FFFF:C601:420F:7
C. 2001:DB8:0:1:FE80:C601:420F:7
D. 2001:DB8:0:1:C601:42FE:800F:7

Answer: A

QUESTION: 3

A network engineer notices that transmission rates of senders of TCP traffic sharply increase and decrease simultaneously during periods of congestion. Which condition causes this?

A. global synchronization
B. tail drop
C. random early detection
D. queue management algorithm

Answer: A

QUESTION: 4

Which three problems result from application mixing of UDP and TCP streams within a network with no QoS? (Choose three.)

A. starvation
B. jitter
C. latency
D. windowing
E. lower throughput

Answer: A,C,E

QUESTION: 5

Which method allows IPv4 and IPv6 to work together without requiring both to be used for a single connection during the migration process?

A. dual-stack method
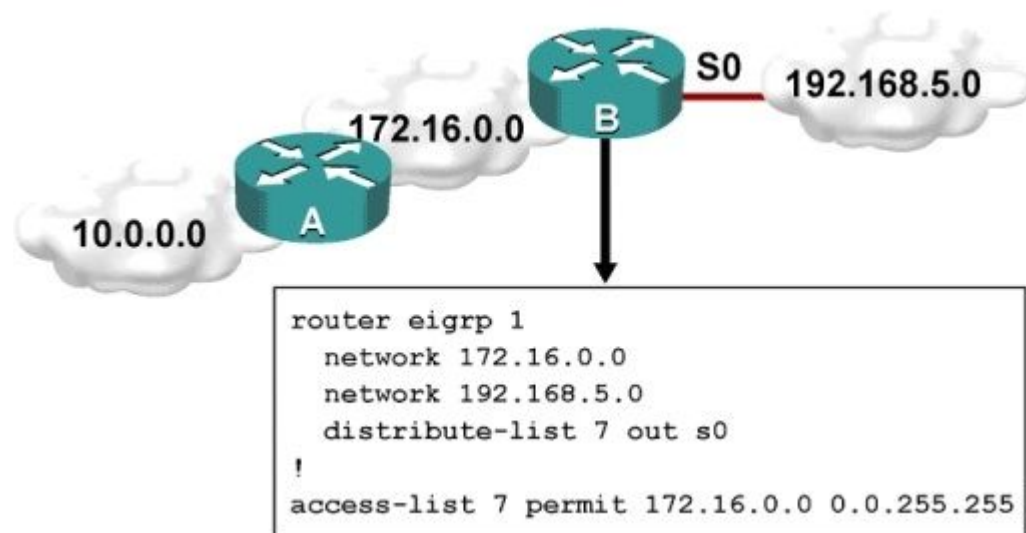B. 6to4 tunneling
C. GRE tunneling
D. NAT-PT

Answer: A

QUESTION: 6

Which statement about the use of tunneling to migrate to IPv6 is true?

A. Tunneling is less secure than dual stack or translation.
B. Tunneling is more difficult to configure than dual stack or translation.
C. Tunneling does not enable users of the new protocol to communicate with users of the old protocol without dual-stack hosts.
D. Tunneling destinations are manually determined by the IPv4 address in the low-order 32 bits of IPv4-compatible IPv6 addresses.

Answer: C

QUESTION: 7

Refer to the exhibit.


```
router eigrp 1
  network 172.16.0.0
  network 192.168.5.0
  distribute-list 7 out s0
!
access-list 7 permit 172.16.0.0 0.0.255.255
```

Which one statement is true?

A. Traffic from the 172.16.0.0/16 network will be blocked by the ACL.
B. The 10.0.0.0/8 network will not be advertised by Router B because the network statement for the 10.0.0.0/8 network is missing from Router B.
C. The 10.0.0.0/8 network will not be in the routing table on Router B.
D. Users on the 10.0.0.0/8 network can successfully ping users on the 192.168.5.0/24 network, but users on the 192.168.5.0/24 cannot successfully ping users on the 10.0.0.0/8 network.
E. Router B will not advertise the 10.0.0.0/8 network because it is blocked by the ACL.

Answer: E

QUESTION: 8

Prior to enabling PPPoE in a virtual private dialup network group, which task must be completed?

A. Disable CDP on the interface.
B. Execute the vpdn enable command.
C. Execute the no switchport command.
D. Enable QoS FIFO for PPPoE support.

Answer: B

QUESTION: 9

A network engineer has been asked to ensure that the PPPoE connection is established and authenticated using an encrypted password. Which technology, in combination with PPPoE, can be used for authentication in this manner?

A. PAP
B. dot1x
C. IPsec
D. CHAP
E. ESP

Answer: D

QUESTION: 10

A corporate policy requires PPPoE to be enabled and to maintain a connection with the ISP, even if no interesting traffic exists. Which feature can be used to accomplish this task?

A. TCP Adjust
B. Dialer Persistent
C. PPPoE Groups
D. half-bridging
E. Peer Neighbor Route

Answer: B

QUESTION: 11

Which PPP authentication method sends authentication information in cleartext?

A. MS CHAP
B. CDPCP
C. CHAP
D. PAP

Answer: D

QUESTION: 12

Which protocol uses dynamic address mapping to request the next-hop protocol address for a specific connection?

A. Frame Relay inverse ARP
B. static DLCI mapping
C. Frame Relay broadcast queue
D. dynamic DLCI mapping

Answer: A

QUESTION: 13

What is the default OSPF hello interval on a Frame Relay point-to-point network?

A. 10
B. 20
C. 30
D. 40

Answer: A