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Huawei H12-811_V2.0 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Network Security and Services: Covers essential network security mechanisms including ACLs, AAA, NAT, and basic firewall concepts to protect network infrastructure.
Topic 2	<ul style="list-style-type: none"> Data Communication Network Basics: Covers foundational concepts of data communication networks including network types, reference models (OSI TCP-IP), and basic device roles.
Topic 3	<ul style="list-style-type: none"> IP Technology Basics: Covers IPv4 IPv6 addressing, subnetting, routing fundamentals, and common routing protocols such as OSPF, RIP, and static routing.
Topic 4	<ul style="list-style-type: none"> Ethernet Technology Basics: Covers Ethernet standards, switching principles, VLANs, and Layer 2 protocols used in enterprise network environments.

Topic 5	<ul style="list-style-type: none"> • Data Center Network Basics: Covers the architecture and key technologies used in modern data center networks including virtualization and high-availability design concepts.
Topic 6	<ul style="list-style-type: none"> • Network O&M and Troubleshooting: Covers network operation and maintenance practices, common diagnostic tools, and methodologies for identifying and resolving network faults.
Topic 7	<ul style="list-style-type: none"> • Typical Campus Networking Solution: Covers end-to-end campus network design scenarios, integrating switching, routing, security, and wireless technologies into a unified solution.

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Huawei HCIA-Datcom V2.0 Sample Questions (Q36-Q41):

NEW QUESTION # 36

What is the broadcast address of the network that contains a host with IP address 192.168.1.147/28?

- A. 192.168.1.159
- B. 192.168.1.145
- C. 192.168.1.157
- D. 192.168.1.255

Answer: A

NEW QUESTION # 37

R1 has the following configurations:

```
[R1] nat address-group test 1
[R1-address-group-test] section 1 100.1.23.1 100.1.23.254
[R1-address-group-test] mode pat
[R1-address-group-test] quit
[R1] nat-policy
[R1-policy-nat] rule name test
[R1-policy-nat-rule-test] source-address range 192.168.0.0 192.168.255.255
[R1-policy-nat-rule-test] action source-nat address-group test
[R1-policy-nat-rule-test] quit
[R1-policy-nat] quit
[R1] interface GE 0/0/2
[R1-GE0/0/2] nat enable
[R1-GE0/0/2] quit
```

Which of the following statements is false ?

- A. An intranet user's post-NAT IP address may be 100.1.23.254.
- B. The post-NAT IP addresses of intranet users with different IP addresses must be different.
- C. The intranet user with the IP address 192.168.1.100 can access the public network.
- D. If data packets from intranet users are not sent through GE0/0/2 of R1, the users may fail to access the public network.

Answer: B

Explanation:

Option C is false. In this configuration, the NAT address group test contains the public address range

100.1.23.1 to 100.1.23.254 , and the address group works in PAT mode . Port Address Translation allows multiple different intranet users to share the same public IP address while being distinguished by different transport-layer port numbers. Therefore, intranet users with different private IP addresses do not have to use different post-NAT public IP addresses.

Option A is true because 100.1.23.254 is included in the configured public address pool and can be used for source NAT. Option B is also true because NAT is enabled on GE0/0/2 , so if user traffic does not leave through that interface, the NAT policy may not be applied and public access may fail. Option D is true because the configured source address range includes 192.168.1.100, which falls within 192.168.0.0 to

192.168.255.255. HCIA-Datcom teaches that NAT behavior depends on matching traffic, address pools, PAT or no-PAT mode, and the interface where NAT is enabled. This question mainly tests understanding of source NAT and PAT address-sharing behavior.

NEW QUESTION # 38

What is the broadcast address of the network that contains a host with IP address 192.168.1.147/28?

- A. 192.168.1.159
- B. 192.168.1.145
- C. 192.168.1.157
- D. 192.168.1.255

Answer: A

Explanation:

A /28 subnet mask corresponds to 255.255.255.240, which means each subnet contains 16 IP addresses . The subnet boundaries in the last octet increase in steps of 16: 0, 16, 32, 48, 64, 80, 96, 112, 128, 144, 160, and so on. The host address 192.168.1.147 falls within the subnet range 192.168.1.144 to 192.168.1.159 .

In that subnet, the network address is 192.168.1.144, the usable host range is 192.168.1.145 through

192.168.1.158, and the broadcast address is 192.168.1.159. Therefore, option C is correct. Option D is the first usable host address, not the broadcast address. Option A is just another usable host address. Option B would be the broadcast address only for a /24 network, not for a /28. HCIA-Datcom requires learners to master subnetting because it is essential for IP planning, gateway deployment, route summarization, and troubleshooting Layer 3 communication issues in campus and enterprise networks.

NEW QUESTION # 39

Which of the following IPv6 addresses is a link-local address ?

- A. 2001::FA63:DBFF:FE9E:10
- B. FE80::FA63:DBFF:FE9E:10
- C. FD00::FA63:DBFF:FE9E:10
- D. FC00::FA63:DBFF:FE9E:10

Answer: B

Explanation:

In IPv6, link-local addresses use the prefix FE80::/10 . These addresses are automatically generated or configured for communication on the local link only and are not routed across Layer 3 boundaries. Therefore, among the given options, FE80::FA63:DBFF:FE9E:10 is the correct link-local address, making option C correct.

Options A and B belong to the Unique Local Address (ULA) space, which uses the prefix FC00::/7 . These addresses are intended for private internal IPv6 networks, somewhat similar in purpose to private IPv4 address ranges, but they are not link-local addresses. Option D , which starts with 2001::, is a global unicast address , used for routable communication across IPv6 networks. HCIA-Datcom teaches that link-local addresses are essential in IPv6 because they are used for functions such as neighbor discovery, router discovery, and routing protocol communication on the local segment. Even when a device has global unicast addresses, the link-local address still plays an important role in normal IPv6 operation and protocol adjacency establishment.

NEW QUESTION # 40

Which of the following configurations can enable connectivity between interfaces on R1 and R3? (Select all that apply)

- A. [R3] ip route-static 10.0.0.0 24 20.1.1.1
- B. [R1] ip route-static 20.1.1.0 24 10.0.0.2

- C. [R1] ip route-static 20.1.1.0 24 20.1.1.2
- D. [R3] ip route-static 10.0.0.0 24 20.1.1.2

Answer: A,B

Explanation:

For two directly connected edge networks to communicate through intermediate routing, each end router must have a route to the remote destination network pointing to the correct next hop on the transit link. Since

10.0.0.0/24 is directly connected to R1 and 20.1.1.0/24 is directly connected to R3, R1 needs a route to

20.1.1.0/24, and R3 needs a route to 10.0.0.0/24.

Option A is correct because it configures on R1 a static route to the remote network 20.1.1.0/24 using next hop 10.0.0.2, which is the neighbor toward the transit path. Option D is correct because it configures on R3 a static route to the remote network 10.0.0.0/24 using next hop 20.1.1.1, which is the proper adjacent forwarding address in that direction. Option B is incorrect because a router cannot use a next hop that belongs to the remote destination network but is not directly reachable as a valid immediate forwarding address in this topology. Option C is also incorrect because the specified next hop is not the correct adjacent next-hop address for R3. HCIA-Datcom stresses that static routes must always point to a reachable next hop or outbound interface.

NEW QUESTION # 41

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