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## "H12-811 HCIA-Datacom" REAL EXAM QUESTIONS AND VERIFIED ANSWERS 2024/2025 LATEST UPDATE// GRADED A+

A network engineer prompts the following information when entering the command line:

Error: unrecognized command found at '^' position.

Which of following statement about the prompt information is correct?

- A. The input command is not clear
- B. Wrong parameter type
- C. No keyword found
- D. Input command is incomplete - ANSWER-Answer: A

Regarding the transport layer protocol, which of the following statements are correct? (Multiple Choice)

- A. The establishment of a TCP connection is a three-way handshake process, and the termination of a TCP connection requires a four-way handshake
- B. UDP uses the SYN and ACK flags to request and confirm the establishment of a connection
- C. The range of well-known port numbers is 1-1023
- D. UDP is suitable for transmitting delay-sensitive traffic and can be reorganized according to the sequence number field in the message header - ANSWER-Answer: AC

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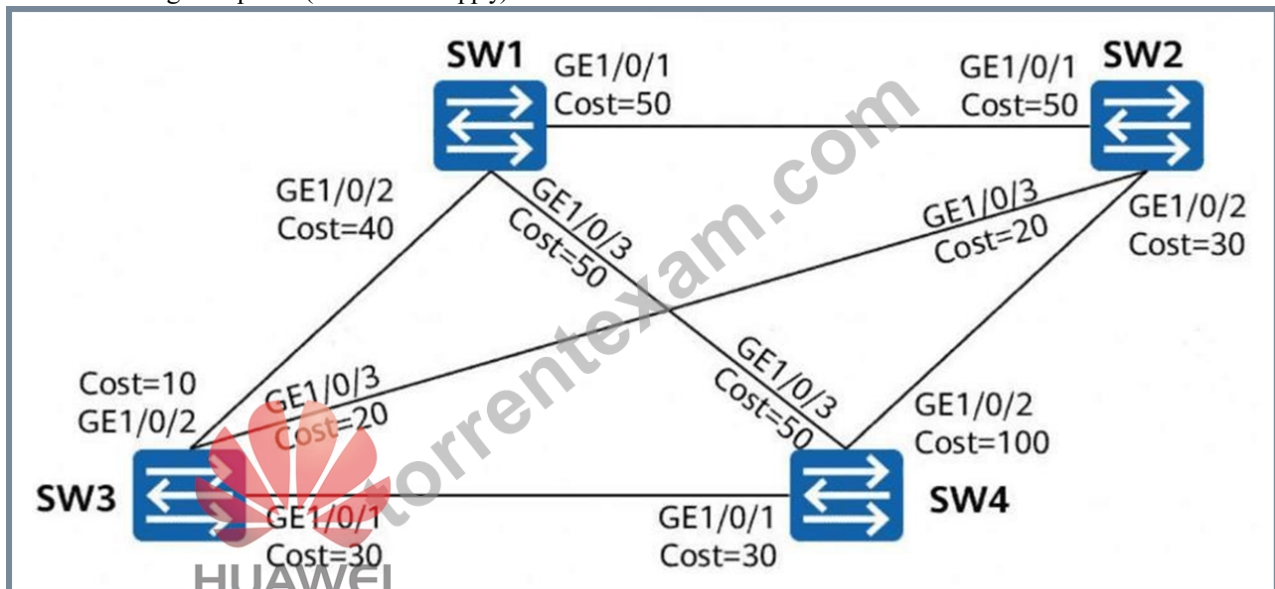
## Huawei H12-811\_V2.0 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>Ethernet Technology Basics: Covers Ethernet standards, switching principles, VLANs, and Layer 2 protocols used in enterprise network environments.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>Typical Campus Networking Solution: Covers end-to-end campus network design scenarios, integrating switching, routing, security, and wireless technologies into a unified solution.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>Data Center Network Basics: Covers the architecture and key technologies used in modern data center networks including virtualization and high-availability design concepts.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>Network Security and Services: Covers essential network security mechanisms including ACLs, AAA, NAT, and basic firewall concepts to protect network infrastructure.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>Network O&amp;M and Troubleshooting: Covers network operation and maintenance practices, common diagnostic tools, and methodologies for identifying and resolving network faults.</li> </ul>
Topic 6	<ul style="list-style-type: none"> <li>WLAN Technology Basics: Covers wireless LAN standards, components such as APs and ACs, WLAN architecture, and basic configuration principles.</li> </ul>

## Huawei HCIA-Datacom V2.0 Sample Questions (Q47-Q52):

### NEW QUESTION # 47

In the STP topology shown in the figure, all links have the same path cost, and SW1 is the root bridge. Which of the following ports will become designated ports? (Select all that apply)



- A. GE1/0/2 of SW2
- B. GE1/0/3 of SW3
- C. GE1/0/1 of SW2
- D. GE1/0/1 of SW4

**Answer: A,B,C**

Explanation:

In STP, the root bridge has all its active ports elected as designated ports on each connected segment. On non-root switches, one

port is selected as the root port, and on each LAN segment, one designated port is elected based on the best BPDU. Since SW1 is the root bridge and all links have equal cost, the election depends first on the path cost to the root, then on bridge ID, and then on port ID if needed.

According to the topology, the ports that become designated are GE1/0/2 of SW2, GE1/0/1 of SW2, and GE1/0/3 of SW3, which correspond to option A, B, and C. Option D is not a designated port in this topology because that segment has another port with a superior BPDU and therefore SW4's port does not win the designated-port election. HCIA-Datacom emphasizes that designated ports are elected per segment, not per switch, and that every non-root switch must compare received BPDUs to determine root and designated roles. This question tests the ability to apply STP election logic rather than simply memorizing port-role definitions.

#### NEW QUESTION # 48

DAD enables a node to detect whether an IPv6 address is already in use by another node before assigning it to an interface. This ensures that duplicate unicast addresses do not exist on a network. Which of the following packets are used for DAD? (Select all that apply)

- A. NA
- B. RS
- C. RA
- D. NS

**Answer: A,D**

Explanation:

Duplicate Address Detection (DAD) is an IPv6 mechanism used to verify that a unicast address is not already in use before the address is assigned to an interface. DAD is implemented using Neighbor Solicitation (NS) and Neighbor Advertisement (NA) messages, which are part of the ICMPv6 Neighbor Discovery protocol. Therefore, options A and D are correct.

When a host wants to verify a tentative IPv6 address, it sends an NS message for that address. If another node on the link is already using that address, that node responds with an NA message, indicating the address is duplicated and cannot be assigned. If no NA is received within the required period, the host assumes the address is unique and can use it. Options B and C are incorrect because Router Solicitation (RS) and Router Advertisement (RA) are used for router discovery, prefix advertisement, and stateless address autoconfiguration, not for DAD itself. HCIA-Datacom emphasizes the distinction between Neighbor Discovery functions, including address resolution, next-hop reachability, router discovery, and duplicate address detection in IPv6 networks.

#### NEW QUESTION # 49

In TCP/IP-based end-to-end communication, only the source and destination hosts process the header information added at the transport layer. Routers along the path will definitely not process this information.

- A. FALSE
- B. TRUE

**Answer: B**

Explanation:

In the standard TCP/IP forwarding model, transport-layer headers such as TCP and UDP headers are added by the source host and are mainly interpreted by the destination host. Routers that forward packets between the source and destination operate primarily at the network layer, using the destination IP address in the IP header to make forwarding decisions. Therefore, under normal routing behavior, routers do not process transport-layer header information when deciding how to forward packets.

This is a key concept in layered communication. The source host encapsulates application data with a transport-layer header, then with an IP header, and finally with a data-link header. Each router along the path removes only the Layer 2 frame header, checks the Layer 3 destination IP information, decrements TTL, recalculates the IP header checksum when required, and forwards the packet. The transport-layer content remains unchanged in normal forwarding. HCIA-Datacom uses this principle to explain end-to-end communication and layer responsibilities. Although advanced devices may inspect higher-layer information for security or policy purposes, standard router forwarding in the basic TCP/IP model does not depend on transport-layer processing.

#### NEW QUESTION # 50

On the OSPF network shown in the figure, all IP addresses can communicate with each other. Then the following configurations are added on R1:

```

[R1] acl 3000
[R1-acl4-advance-3000] rule deny ip source 10.0.1.1 0.0.0.0
[R1-acl4-advance-3000] rule deny ip source 10.1.1.1 0.0.0.0
[R1-acl4-advance-3000] rule deny ip source 10.3.1.1 0.0.0.0
[R1-acl4-advance-3000] rule permit ip
[R1-acl4-advance-3000] quit
[R1] traffic classifier test
[R1-classifier-test] if-match acl 3000
[R1-classifier-test] quit
[R1] traffic behavior test
[R1-behavior-test] permit
[R1-behavior-test] quit
[R1] traffic policy test
[R1-trafficpolicy-test] classifier test behavior test
[R1-trafficpolicy-test] quit
[R1] interface GE 0/0/1
[R1-GE0/0/1] traffic-policy test inbound
[R1-GE0/0/1] quit

```



Which IP address of S1 can successfully ping 10.2.23.3?



- A. 10.3.1.1
- B. 10.1.1.1
- C. 10.0.1.1
- D. 10.2.1.1

**Answer: D**

Explanation:

According to the topology and the original question scenario, the correct answer is 10.2.1.1, so option B is selected. In HCIA-Datacom troubleshooting questions of this type, the goal is usually to identify the correct management address, next-hop interface address, or testing destination based on the addressing design shown in the figure.

The answer depends on the role of the device and the direction of the connectivity verification. In such topologies, each interface belongs to a specific network segment, and the selected address must match the intended test target on that segment. If the test is being performed toward the neighboring device or a specific reachable interface, using the correct IP on the proper subnet is essential. An incorrect address may still look familiar from the topology but would not represent the right test endpoint. HCIA-Datacom places strong emphasis on reading topology labels carefully, matching interface addresses to subnet assignments, and choosing the correct destination when using tools such as ping, tracer, or service-specific connectivity tests.

This question mainly checks address recognition accuracy in a troubleshooting context.

### NEW QUESTION # 51

The following command output is displayed on R1:

[R1] display aaa configuration

Domain Name Delimiter : @

Domainname parse direction : Left to right

Domainname location : After-delimiter

Administrator user default domain : default\_admin

Normal user default domain : default

Domain : total: 256 used: 3

Authentication-scheme : total: 32 used: 2

Accounting-scheme : total: 32 used: 1

Authorization-scheme : total: 32 used: 2

Service-scheme : total: 256 used: 0

Recording-scheme : total: 32 used: 0

Local-user : total: 512 used: 2

Remote-admin-user block retry-interval : 5 Min(s)

Remote-admin-user block retry-time : 3

Remote-admin-user block time : 5 Min(s)

Session timeout invalid enable : No

Which of the following statements is false?

- A. The domain name delimiter is at sign (@).
- B. A maximum of 512 local users can be created. Two local users have been created.
- C. The local account lockout duration is 30 minutes.
- D. The maximum number of consecutive authentication failures of the local account is 3.

**Answer: C**

Explanation:

Comprehensive and Detailed 150 to 200 words of Explanation From Datacom knowledge:

The false statement is B . From the AAA configuration output, the value of Remote-admin-user block time is clearly shown as 5 Min(s) , which means the account lockout duration is 5 minutes , not 30 minutes.

Option A is true because Remote-admin-user block retry-time : 3 indicates that after 3 consecutive authentication failures , the account will be blocked. Option C is also true because the displayed Domain Name Delimiter is @ , which is the separator used in usernames such as user@huawei.com. Option D is true as well because the output shows Local-user : total: 512 used: 2 , meaning that the device supports a maximum of 512 local users , and currently 2 local users have been created.

This question checks the ability to correctly read AAA configuration output on Huawei devices. In HCIA- Datacom knowledge, it is important to distinguish between retry interval , retry count , and block time , because these values represent different security control parameters and are often confused during troubleshooting or configuration review.

### NEW QUESTION # 52

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