

# H12-891\_V1.0 Test Quiz - Realistic Valid HCIE-Datacom V1.0 Test Review



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## Valid H12-891\_V1.0 Test Review | H12-891\_V1.0 Valid Test Syllabus

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The Huawei H12-891\_V1.0 exam consists of multiple-choice questions that cover a wide range of topics related to data communication technologies, including network architecture and design, network protocols, network security, network management, and more. H12-891\_V1.0 Exam is designed to test the candidate's ability to solve complex problems related to data communication technologies and to demonstrate their ability to design and implement solutions that meet the needs of their clients.

## Huawei HCIE-Datacom V1.0 Sample Questions (Q276-Q281):

### NEW QUESTION # 276

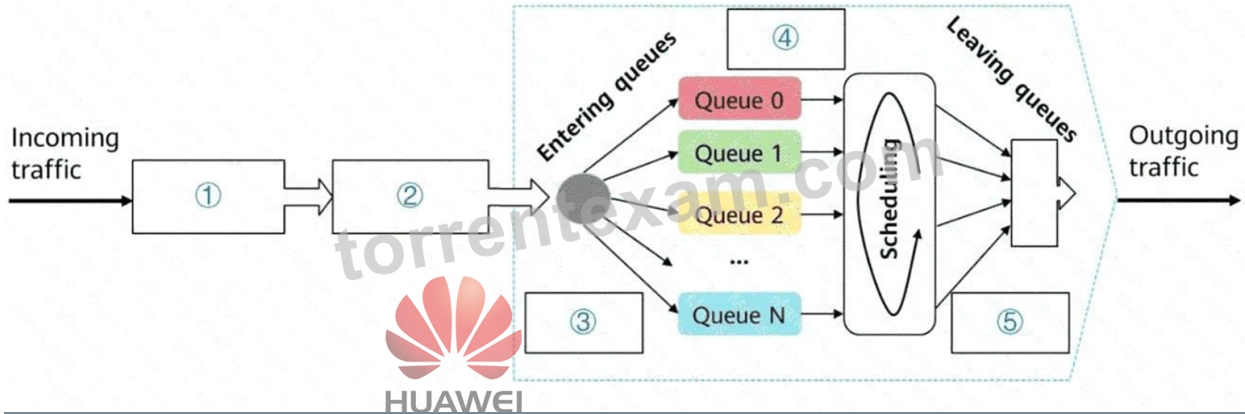
The Next Header field information exists only in the header of an IPv6 message and is used to indicate whether an extended header exists for IPv6

- A. False
- B. True

Answer: A

**NEW QUESTION # 277**

Complete the basic processing procedure for DiffServ model-based QoS shown in the figure



Congestion avoidance		1
Traffic classification and marking		2
Congestion management		3
Traffic shaping		4
Traffic policing (CAR)		5

Answer:

Explanation:

Congestion avoidance	Traffic classification and marking	1
Traffic classification and marking	Traffic policing (CAR)	2
Congestion management	Congestion management	3
Traffic shaping	Congestion avoidance	4
Traffic policing (CAR)	Traffic shaping	5

Explanation:

The Differentiated Services (DiffServ) model for Quality of Service (QoS) enables traffic management based on predefined priorities. This involves classifying, policing, queuing, and scheduling traffic to ensure efficient network resource utilization.

Breakdown of Each QoS Processing Step:

#Step 1: Traffic Classification and Marking

Purpose: Identifies and marks packets based on QoS attributes such as DSCP (Differentiated Services Code Point) or 802.1p priority bits.

Function: Assigns a QoS label to packets for further processing.

Example: Packets carrying voice traffic (EF - Expedited Forwarding) are marked for high-priority treatment.

#Step 2: Traffic Policing (CAR - Committed Access Rate)

Purpose: Enforces bandwidth limits on specific traffic flows to prevent excessive usage.

Function: Drops or re-marks packets exceeding the assigned bandwidth threshold.

Example: If a video stream exceeds 10 Mbps, excess packets may be dropped or re-marked.

#Step 3: Congestion Management (Queuing and Scheduling)

Purpose: Manage traffic flow through queues based on assigned QoS levels.

Function: Places packets in appropriate priority queues (e.g., Strict Priority, Weighted Fair Queuing - WFQ, CBWFQ).

Example: Voice packets are assigned to high-priority queues for low-latency forwarding.

#Step 4: Congestion Avoidance

Purpose: Prevents network buffer overflows and excessive packet drops.

Function: Uses mechanisms like WRED (Weighted Random Early Detection) to drop lower-priority packets before congestion occurs.

Example: If a queue reaches 80% capacity, WRED may drop low-priority packets to maintain QoS.

#Step 5: Traffic Shaping

Purpose: Smooths out traffic bursts to maintain a consistent transmission rate.

Function: Buffers and delays packets to prevent excessive packet drops.

Example: If outgoing traffic exceeds 50 Mbps, shaping ensures it does not exceed this limit while maintaining steady flow.

### NEW QUESTION # 278

SR-MPLS uses the MPLS forwarding plane, and therefore requires MPLS to be enabled. Which of the following conditions must be met for MPLS to be automatically enabled on an interface? (Select all that apply)

- A. Segment routing is enabled for IGP, and IGP is enabled on the interface.
- B. The SRGB is configured for the IGP process.
- C. Segment routing is enabled in the system view.
- D. The static adjacency label of the corresponding interface is configured in the segment routing view.

**Answer: A,C**

Explanation:

To automatically enable MPLS on an interface in SR-MPLS:

Segment routing must be enabled globally in the system view →

Segment routing must also be enabled under the IGP process, and IGP (OSPF or IS-IS) must be enabled on the interface →

Clarifications:

SRGB (Segment Routing Global Block) configuration defines SID ranges but does not trigger MPLS enablement →

Static adjacency labels are advanced options and do not auto-enable MPLS →

Correct answers: B, D

### NEW QUESTION # 279

New IS-IS TLVs are used to carry IPv6 addresses and reachability information to support IPv6 route processing and calculation.

- A. TRUE
- B. FALSE

**Answer: A**

Explanation:

IS-IS was originally designed for IPv4, but extensions via TLVs (Type-Length-Value) allow it to support IPv6. These are referred to as New IS-IS TLVs, including TLV 236 (IPv6 Reachability), TLV 232 (IPv6 Interface Address), etc. These TLVs are crucial for IPv6 route computation within IS-IS.

Exact Extract - HCIE-Datcom Guide - IPv6 Routing Protocols Chapter

"IS-IS uses new TLVs such as TLV 236 and TLV 232 to carry IPv6 prefix and interface address information. These TLVs are essential to enable IPv6 route calculation." Reference:

Huawei HCIE-Datcom Training Manual - IS-IS for IPv6 Support

HCIE-Datcom Study Guide - IS-IS TLVs Overview Section

### NEW QUESTION # 280

Which of the following statements about static VXLAN tunnel configuration are correct?

- A. One NVE interface must be created for each BD. If there are multiple BDs, multiple NVE interfaces must be created.
- B. An NVE interface can be associated with multiple VNIs. Therefore, you can create one NVE interface when there are

multiple BDs.

- C. One NVE interface must be created for each VXLAN tunnel, and the source and destination IP addresses must be specified for the NVE interface. Therefore, the number of NVE interfaces is the same as the number of VXLAN tunnels on the VTEP.
- D. On an NVE interface, the destination address of a VXLAN tunnel is specified based on the address in the ingress replication list. You can create one NVE interface for multiple VXLAN tunnels.

**Answer: B,D**

Explanation:

Understanding VXLAN and NVE Interfaces

VXLAN (Virtual Extensible LAN) allows for Layer 2 network extension over Layer 3 infrastructure.

# Key VXLAN Components:

\* NVE (Network Virtualization Edge) Interface # VXLAN tunnels are created using one or more NVE interfaces.

\* BD (Bridge Domain) # Logical grouping of VXLAN traffic.

\* VNI (VXLAN Network Identifier) # 24-bit unique ID for traffic segmentation.

# Analysis of Each Option:

# A. One NVE interface can be used for multiple VXLAN tunnels if ingress replication is used.

\* Correct: VXLAN tunnels can be dynamically learned using BGP EVPN, meaning multiple tunnels can use the same NVE interface.

# B. An NVE interface can be associated with multiple VNIs, allowing multiple BDs on one NVE.

\* Correct: Each NVE interface can carry multiple VNIs, reducing the need for separate interfaces.

# C. One NVE interface must be created per VXLAN tunnel.

\* Incorrect: Multiple VXLAN tunnels can share a single NVE interface.

# D. One NVE must be created for each BD.

\* Incorrect: One NVE can support multiple BDs.

# Real-World Application:

\* Cloud Data Centers: VXLAN enables multi-tenant network segmentation.

\* Campus Networks: Simplifies Layer 2/Layer 3 connectivity across sites.

# Reference: Huawei HCIE-Datacom Guide - VXLAN and NVE Configuration

## NEW QUESTION # 281

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