# 4A0-107<sup>Q&As</sup>

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**QUESTION 1**

Which of the following statements about the default scheduler in the Nokia 7750 SR is FALSE?

A. The default scheduler spends an equal amount of time servicing each queue that has traffic to be sent out.

B. Queue-type can be configured as best-effort, expedite, or auto-expedite.

C. A queue will be serviced as expedited if its type is configured as expedited, regardless of the forwarding classes mapped to it.

D. A queue configured as auto-expedited will be an expedited queue as long as no Best Effort FC is mapped to it.

Correct Answer: A

**QUESTION 2**

Which of the following rate-limiting approaches are used on the Nokia 7750 SR? (Choose two)

A. Shapeless policing at SAP-ingress only.

B. Shapeless policing at SAP-ingress and egress.

C. Biased round robin queuing at ingress only.

D. Soft shaping at all network interfaces.

E. Soft shaping at network ingress only.

Correct Answer: DE

**QUESTION 3**

While deciding how to share the available bandwidth among its children, when does a port scheduler consider the parameter "level" of a child?

A. During the allocation of within-CIR bandwidth.

B. During the allocation of above-CIR bandwidth.

C. During the allocation of both within-CIR and above-CIR bandwidth.

D. The port scheduler does not use the level of a child for making bandwidth allocation decisions

Correct Answer: B

**QUESTION 4**

Which of the following statements are TRUE regarding the building of a QoS-enabled network? (Choose two)

A. It is important that all packets are classified in the same way at all SAP-ingress points.

B. Once a packet is classified to a forwarding class, it cannot change across the network.

C. Packet enters a node will be treated as per the local hop\\'s configured policy.

D. Native IP packets entering a network port will be marked at the first network egress by default

E. Native IP packets entering a network port will not be marked at the first network egress by default.

F. Native IP packets entering a network port will be marked at the first network egress, regardless of the re-marking configuration.

Correct Answer: CE

QUESTION 5

An egress port scheduler applied to an Ethernet port has a configured bandwidth of 100 Mbps. All frames transmitted on the port are 80 bytes. What is the aggregate transmit bandwidth of all queues using the port scheduler?

A. 100Mbps * 20/(80 + 20) = 20 Mbps

B. 100Mbps * 80/(80 + 20) = 80 Mbps

C. 100Mbps

D. 100+ 100 * 20/(80 + 20) = 120 Mbps

Correct Answer: C

QUESTION 6

Policing improves bandwidth utilization by using buffering to absorb high bursts of traffic.

A. TRUE

B. FALSE

Correct Answer: B

QUESTION 7

Which of the following statements about the bandwidth allocation criteria used by an egress port scheduler is TRUE?

A. The available bandwidth of the port is divided in a strict priority over its children.

B. Expedited queues must be serviced before best-effort queues.

C. Orphaned queues are serviced on the 8th scheduling priority.

D. The configured CIR dictates the maximum port bandwidth that can be allocated during the within-CIR pass for that

level.

Correct Answer: B


**QUESTION 8**

Click the exhibit button below. A network operator has configured the SAP-ingress policy below. Ping traffic is expected in queue 3. However, the network operator notices that all traffic is placed in queue 1. What is the most probable reason for this?

```
A:sr1a>config>qos>sap-ingress# info
--------------------------------------------------
                queue 1 create
                     rate max cir 10000
                exit
                queue 2 create
                     rate 50000 cir 10000
                 exit
                queue 3 create
                     rate 5000 cir 1000
                exit
                queue 11 multipoint create
                exit
                fc "af" create
                     queue 2
                exit
                fc "h2" create
                     queue 3
                ip-criteria
                     entry 10 create
                          match protocol tcp
                               dst-port eq 1234
                          exit
                          action fc "ef"
                     exit
                     entry 20 create
                          match protocol icmp
                          exit
                          action fc "h2"
                     exit
                exit
                default-fc be
```

A. The default forwarding class for all traffic, including ICMP, is BE, which is placed in queue 1.

B. The SAP has been shut down.

C. The IP-match criteria has been misconfigured for ICMP traffic.

D. Queue 3 has no rate or CIR configured and thus cannot hold any packets.

E. The SAP-ingress policy has not been applied to the SAP.

Correct Answer: E

## QUESTION 9

Which of the following statements about the DiffServ and IntServ QoS models is FALSE?

A. IntServ uses a protocol like RSVP to provide QoS guarantees on a per-flow basis.

B. DiffServ groups multiple microflows into bigger streams called macro flows.

C. Intserv requires that network routers allocate resources for thousands of individual flows.

D. Diffserv classifies packets into forwarding classes only at the first network hop.

Correct Answer: D

## QUESTION 10

Which parameter can be configured in a network ingress QoS policy?

A. The priority (low/high) to be assigned to the packets.

B. The profile (in/out) to be assigned to the packets.

C. The queues to be assigned to the forwarding classes.

D. The markings to be marked on the packets.

Correct Answer: B

## QUESTION 11

A default network policy is applied to all router interfaces associated with network ports.

A. TRUE

B. FALSE

Correct Answer: A

## QUESTION 12

What is an SLA? (Choose two)

A. An SLA is used to provide automated, real-time testing and alarming for throughput, latency, and jitter across a provider\\'s network.

B. An SLA is an agreement between a customer and a provider that dictates the treatment of customer traffic across the provider\\'s network.

C. An SLA allows customers to control all traffic within the service provider\\'s network by prioritizing their traffic over others as desired.

D. An SLA allows a customer to pre-mark traffic and ensure that traffic is treated as per the agreement within the provider\\'s network.

E. An SLA is a standard set of network QoS policies that a provider shares to all its customers, allowing them to better understand the treatment of traffic within the provider\\'s network.

Correct Answer: BD

QUESTION 13

In a Nokia 7750 SR, which of the following QoS policies CANNOT include packet classification criteria?

A. SAP-ingress

B. SAP-egress

C. Network-queue

D. Network

Correct Answer: B

QUESTION 14

A queue-group template can only contain policers (no queues) when applied under which conditions?

A. When applied at the FP (Forwarding Path) level for access egress

B. When applied at an access port for ingress or egress

C. When applied at the FP (Forwarding Pass) level for access ingress

D. When applied at the port level for network egress

Correct Answer: C

QUESTION 15

Assume all transmitted frames on a SONET port are 1500 bytes and that the average frame overhead has been configured as 10%. If the total bandwidth of all queues, excluding overhead, needs to be guaranteed at 55 Mbps, how much bandwidth should be configured for the egress port scheduler applied on that port?

A. 55 Mbps / 1.1 = 50 Mbps

B. 55 Mbps

C. 55 Mbps + 55 Mbps * 0.1 / 1.1 = 60 Mbps

D. 55 Mbps * 1.1 = 60.5 Mbps

Correct Answer: D