

Nokia 4A0-107 Exam

Volume: 100 Questions

Question No : 1

In which of the following scenarios is self-generated traffic QoS (sgt-QoS) useful?

- A. EXP markings on transit control traffic are not set correctly.
- B. The priority of all self-generated traffic needs to be lowered to allow all other traffic to take precedence.
- C. The priority of various control packets requires special treatment throughout the network.
- D. The BGP process is consuming too many CPU cycles and is impacting OSPF performance.

Answer: C

Question No : 2

Which of the following statements BEST describes the IntServ model?

- A. Has the ability to distinguish traffic in 32 different ways.
- B. Uses the RSVP protocol to create microflows through a network.
- C. Has the ability to manually configure forwarding classes through a network.
- D. Uses the RSVP protocol to create macroflows through a network.

Answer: B

Question No : 3

Which of the following statements BEST defines policing?

- A. The process of delaying packets within a traffic stream to have them conform to a defined traffic profile.
- B. The overall treatment of a defined subset of a customer's traffic within a DiffServ domain.
- C. The process of discarding packets within a traffic stream in accordance with the state of a meter to enforce a defined traffic profile.
- D. The action of setting the DiffServ codepoint of a packet prior to its entry into a downstream DiffServ domain.

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E. A specified algorithm or operation that is implemented in a node in order to realize one or more per-hop behaviors.

Answer: C

Question No : 4

Which of the following are the minimum requirements needed to classify traffic marked with DSCP AF11, AF12, and AF13 into the AF forwarding class and provide fair treatment to the drop precedence settings? (Choose three)

- A. Profile mode queues
- B. Priority mode queues
- C. 1 queue
- D. 3 queues
- E. 3 forwarding classes
- F. 1 forwarding class, with 2 subclasses
- G. 1 forwarding class, with 3 subclasses

Answer: A,C,F

Question No : 5

In the context of hierarchical scheduling, a scheduler is configured with a CIR weight of 0. Which of the following statements is TRUE?

- A. The scheduler will be allocated its "within CIR" bandwidth before all other children at the same level have received their "within CIR" bandwidth.
- B. The scheduler will be allocated its "within CIR" bandwidth after all other children at the same level have received their "within CIR" bandwidth.
- C. The scheduler will be allocated its "within CIR" bandwidth after all other children at all levels have received their "within CIR" bandwidth.
- D. The scheduler will not be allocated its "within CIR" bandwidth.

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Answer: D

Question No : 6

What is the 6-bit binary representation of DSCP value AF21?

- A. 010011
- B. 100010
- C. 010001
- D. 001100
- E. 010010

Answer: E

Question No : 7

How many bits does DSCP use to provide QoS marking options?

- A. 8
- B. 16
- C. 6
- D. 4
- E. 3

Answer: C

Question No : 8

Which of the following are entities of the Alcatel-Lucent 7750 SR on which you can NOT apply a network-queue policy? (Choose three)

- A. Router interfaces
- B. Ingress MDA

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C. Ingress Ethernet network ports

D. Egress Ethernet network ports

E. Service SAPs

Answer: A,C,E

Question No : 9

With hierarchical scheduling, up to _____ tiers are supported on the Alcatel-Lucent 7750 SR.

A. 8

B. 3

C. 4

D. 5

E. 6

Answer: B

Question No : 10

What is the maximum number of forwarding subclasses a forwarding class can have?

A. 3

B. 64

C. 72

D. 16

E. 56

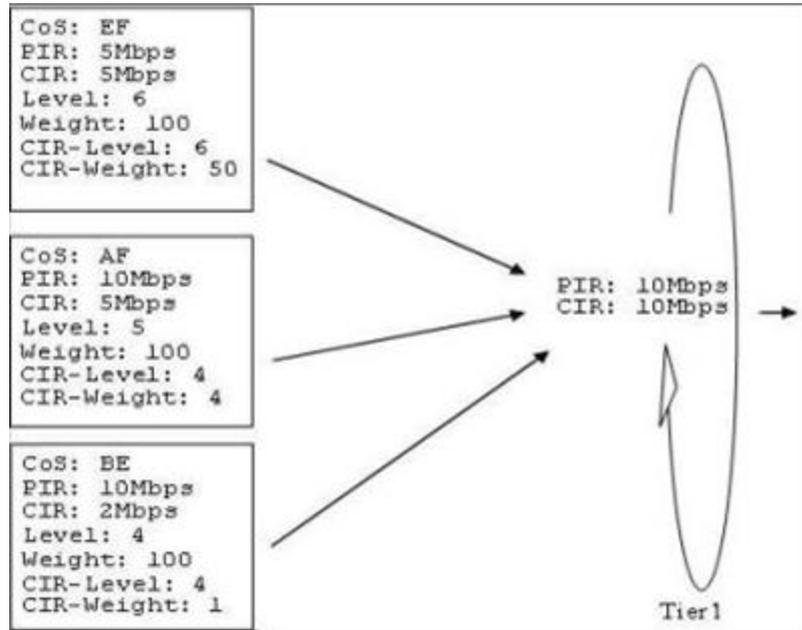
Answer: E

Question No : 11

Click the exhibit button below. Given the scheduler-policy (below), which of the following can be done to

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guarantee that the best-effort traffic receives its configured CIR value?



- A. Change the CIR-level value for the best-effort queue to 8.
- B. Do not change anything; it is already guaranteed to receive its CIR
- C. Change the CIR-level value for the best-effort queue to 1.
- D. Change the CIR-weight value of the AF queue to 0.

Answer: A,D

Question No : 12

Which of the following are major components of QoS functionality on the Alcatel-Lucent 7750 SR?
(Choose three)

- A. Microflow reservations using RSVP
- B. DSCP to EXP translation
- C. Traffic classification
- D. Automatic profiling and policy configuration
- E. Buffer memory management
- F. Traffic scheduling

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Answer: C,E,F

Question No : 13

Click the exhibit button below. Given that the slope-policy (below) has been enabled and applied on a network port, which of the following statements are TRUE? (Choose three)

```
A:srl1a>config>qos>slope-policy# info detail
-----
description "slope policy"
high-slope
  start-avg 50
  max-avg 70
  max-prob 60
  no shutdown
exit
low-slope
  start-avg 10
  max-avg 20
  max-prob 80
  no shutdown
exit
time-average-factor 0
-----
```

- A. All out-of-profile traffic will be dropped before any in-profile is dropped.
- B. The time average factor of 0 will discard all packets arriving in the shared buffer pool.
- C. When the shared buffer utilization reaches 51%, in-profile packets might be dropped.
- D. The highest probability with which an out-of-profile packet can be dropped is 20%.
- E. When an in-profile packet arrives and the shared buffer utilization is at 69%, the packet will have approximately a 60% likelihood of being discarded.

Answer: A,C,E

Question No : 14

Which of the following statements regarding DSCP bits are TRUE? (Choose three)

- A. The three most significant (first) bits define 8 forwarding classes.
- B. The three least significant (last) bits of the DSCP specify the drop probability.
- C. The full 8 bits of the TOS field are used for DSCP.

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- D. To convert DSCP to IP precedence, the three most significant (first) bits are matched.
- E. DSCP provides for eight drop probabilities.

Answer: A,B,D

Question No : 15

Which of the following should be performed if a service provider does not want packets to make use of the shared buffer space when queued?

- A. Set the CBS to 0.
- B. Set the MBS equal to the CBS.
- C. Set the high-priority-only equal to the MBS.
- D. Set the MBS to 0.
- E. Set the high-priority-only to 0.

Answer: B

Question No : 16

Forwarding subclasses are only relevant to, and are therefore applied within the context of, a _____ policy.

- A. network
- B. scheduling
- C. slope
- D. SAP-ingress
- E. network-queue

Answer: D

Question No : 17

WRED can be used to help avoid TCP slow-start synch problems.

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A. TRUE

B. FALSE

Answer: A

Question No : 18

Which of the following entities can scheduler policies be applied to? (Choose two)

A. Network ingress port

B. Epipe ingress SAP

C. ES egress SAP

D. Ingress MDA

E. VPRN ingress interface

F. Shared buffer space

Answer: B,C

Question No : 19

Click the exhibit button below. Given the output of the #show pools 1/2/2 network-egress command on a GigE port, what can the service provider deduce? (Choose two)

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```
A:srla>config# show pools 1/2/2 network-egress

=====
Pool Information
=====
Port          : 1/2/2
Application   : Net-Egr          Pool Name       : default
Resv CBS     : Sum
=====

Utilization      State   Start-Avg Max-Avg   Max-Prob
-----
High-Slope      Down   70%      90%      80%
Low-Slope       Up     10%      50%      80%

Time Avg Factor : 7
Pool Total      : 20480 KB
Pool Shared     : 12288 KB          Pool Resv       : 8192 KB

Pool Total In Use : 704 KB
Pool Shared In Use : 192 KB          Pool Resv In Use :
512 KB
WA Shared In Use  : 1 KB

Hi-Slope Drop Prob : 0          Lo-Slope Drop Prob : 0
=====

FC-Maps      MBS      Depth  A.CIR      A.PIR
              CBS
-----
be 12        192      190     0           1000000
              0           0           Max
af           10240    456    250000     1000000
              1792          250000     Max
l1           5120     0       250000     1000000
              512           250000     Max
h2           10240    0       1000000    1000000
              1792          Max         Max
ef           10240    0       1000000    1000000
              1792          Max         Max
h1           512      0       100000     10000
              512           100000     10000
nc           5120     0       100000     1000000
              512           100000     Max
```

- A. QoS is not configured on the router.
- B. Packets in forwarding classes "be" and "12" are being queued.
- C. Traffic belonging to forwarding class "ef" is not experiencing queuing delays.
- D. Traffic belonging to forwarding class "l1" will never make use of the shared buffer pool.
- E. Out-of-profile traffic in the shared buffer pool is being dropped.

Answer: B,C

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Question No : 20

A queue is configured with the following attributes: MBS = 10KB CBS = 5KB High-Priority-Only = 30% Assume that there is no CBS overbooking and that the slope-policy is disabled. If the current queue depth is 8KB, what will happen to an in-profile packet arriving in the queue?

- A. It will be discarded because the high-priority-only threshold is exceeded.
- B. It will be queued but re-marked as "out-of-profile."
- C. It will be queued in the reserved portion of the buffer pool and remain "in-profile."
- D. It will be queued in the shared portion of the buffer pool but contend for shared buffer space with packets from other queues.
- E. It will be queued in the shared portion of the buffer pool but may be dropped if the buffer utilization exceeds the start-average value of the low slope.

Answer: D

Question No : 21

Which of the following statements BEST describes where shaping mechanisms should be applied?

- A. On all ports on the Alcatel-Lucent 7750 SR.
- B. At the junction of high-speed to low-speed links or at places of traffic aggregation.
- C. At the junction of low-speed to high-speed links or at places of traffic aggregation.
- D. On low-speed WAN links.
- E. Nowhere. Shaping is only performed in hardware and serviced in a round-robin.

Answer: B

Question No : 22

When deploying an Alcatel-Lucent MPLS network with QoS, how are the EXP bits set?

- A. The first 3 bits of the DSCP value are copied directly into the EXP field on the first network egress.
- B. The EXP bits are set on the first network egress, based on a combination of the SAP-ingress classification and the network policy applied.