4A0-107

Alcatel-Lucent Quality of Service

Exam A

QUESTION 1
Which of the following are characteristics of DSCP? (Choose two)

A. DSCP is part of the Layer 3 header.

B. DSCP is a 6-bit field.
C. DSCP specifies eight different priorities.
D. DSCP specifies four precedence levels.
E. DSCP is part of the Layer 2 header
F. DSCP specifies 128 different per-hop behaviors.

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 2
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
Section: (none)
Explanation
Explanation/Reference:

QUESTION 3
How many bits does DSCP use to provide QoS marking options?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 4
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

Correct Answer: CEF
Section: (none)
Explanation

Explanation/Reference:

QUESTION 5
Which of the following are characteristics of 802.1p? (Choose two)
A. 802.1p adds 16 bits to the Layer 2 header,
B. 802.1p adds 16 bits to the Layer 3 header.

C. 802.1p specifies 64 different priority levels.

D. 802.1p uses a field in the 802.1Q header.

E. 802.1p uses a field in the Layer 3 IP header

F. 802.1p defines a 3-bit Class of Service field.

Correct Answer: DF
Section: (none)
Explanation

Explanation/Reference:

QUESTION 6
Individual application streams are considered microflows, whereas _____ are considered macroflows.

A. SAPs

B. SDPs

C. Services

D. Queues

E. Schedulers

F. Forwarding classes

Correct Answer: F
Section: (none)
Explanation

Explanation/Reference:

QUESTION 7
What is the maximum number of SAP-ingress policies that can be applied on a SAP?

A. 1

B. 2

C. 3
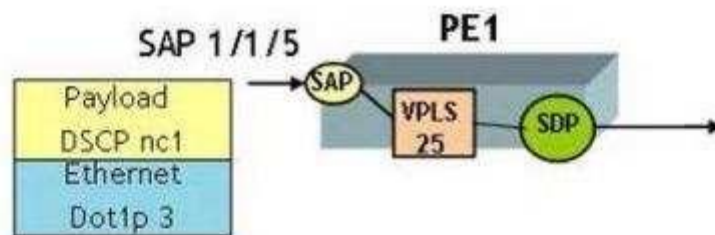
D. 4

E. 5

F. 8

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 8
Click the exhibit button below.

SAP 1/1/5   **PE1**

```
Payload
DSCP nc1
Ethernet
Dot1p 3
```

SAP → VPLS 25 → SDP →

```
qos sap-ingress 5 create
        dot1p 3 fc "ef"
        dscp nc1 fc "nc"
    ip-criteria
        entry 10 create
            match protocol tcp
                    dst-port gt 20
            exit
            action fc "l2"
        exit
        entry 20 create
            match protocol tcp
                dst-ip
                    120.110.1.1/32
                dst-port eq 23
            exit
            action fc "h1"
        exit
    exit
default-fc "h2"
```

```
vpls 25 customer 1 create
        stp
            shutdown
        exit
        sap 1/1/5 create
            ingress
                qos 5
            exit
        exit
        no shutdown
exit
```

Based on the configuration shown below, name the forwarding class to be associated with a TCP packet encapsulated inside an Ethernet frame that arrives on SAP 1/1/5 with the following characteristics:
Destination IP address = 120.110.1.1
TCP port number = 23
DSCP value = nc1
Dot1pvalue = 3

A. H2
B. NC
C. L2
D. EF
E. H1
F. BE

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 9
Which of the following are possible criteria for classifying packets at the network port ingress on the Alcatel-Lucent 7750 SR? (Choose three)

A. The EXP bits in the MPLS header.
B. The packet's source and destination IP addresses.
C. The packet's DSCP bits.
D. The dot1p bits in the frame header.
E. The ID of an SDP that is transporting the packet.

Correct Answer: ACD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 10
WRED can be used to help avoid TCP slow-start synch problems.

A. TRUE
B. FALSE

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 11
What is the maximum number of forwarding subclasses a forwarding class can have?

A. 3
B. 64
C. 72
D. 16
E. 56

Correct Answer: E
Section: (none)
Explanation

Explanation/Reference:

QUESTION 12

Click the exhibit button below. Given the slope-policy (below), which of the following statements are TRUE? (Choose two)

```
A:srla>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 60
                  max-prob 80
                  no shutdown
            exit
            time-average-factor 1
-----------------------------------------------------
```

A. All out-of-profile traffic will be dropped before that of any in-profile traffic.
B. The discard probability slope of an in-profile traffic is steeper than that of an out-of-profile traffic.
C. When the shared buffer utilization reaches 55%, both in-profile and out-of-profile packets may be dropped.
D. The maximum probability with which an out-of-profile packet can be dropped is higher than that of an in-profile packet.
E. When the shared buffer utilization is at 61%, only in-profile packets are currently in the shared buffer pool.

Correct Answer: CD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 13

Click the exhibit button below. Given the SAP-ingress policy, which of the following statements are FALSE? (Choose three)

```
*A:srcdev3r1>config>qos# info
----------------------------------------------
#----------------------------------------------
echo "QoS Policy Configuration"
#----------------------------------------------
        sap-ingress 66 create
            queue 1 create
            exit
            queue 3 profile-mode create
                parent "high" level 5 weight 100 cir-level 5
                rate 50000 cir 10000
            exit
            queue 5 create
                parent "high" level 7 weight 100 cir-level 7
                rate 30000 cir 20000
            exit
            queue 6 create
                parent "high" level 8 weight 100 cir-level 8
                rate 2000 cir 2000
            exit
            queue 11 multipoint create
            exit
            fc "af" create
                queue 3
                profile in
            exit
            fc "ef" create
                queue 6
            exit
            fc "h2" create
                queue 5
            exit
            ip-criteria
                entry 10 create
                    match protocol tcp
                        dst-port eq 1234
                    exit
                    action fc "ef" priority high
```

A. Queue 5 is using priority mode.
B. UDP traffic can be serviced at a maximum rate of 20 Mbps.
C. Ping traffic is place in queue 5.
D. Queues 5 and 6 will receive equal portions of any remaining available bandwidth to meet their above-CIR bandwidth requirements.
E. Queue 3 is scheduled before queue 5.

Correct Answer: BDE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 14
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.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 15
Which of the following statements BEST describes an MBS parameter?

A. It specifies the maximum rate at which a queue can be serviced.
B. It specifies the maximum depth of a queue beyond which packets will be dropped.
C. It specifies the portion of a queue that is taken from the reserved buffer pool.
D. It specifies the threshold beyond which only in-profile packets will be queued.
E. It specifies the peak bandwidth that can be attained by the incoming traffic.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 16
How many queues are available for use on service egress within a VPLS service?

A. 1 multipoint and 8 unicast.
B. 8 queues, regardless of traffic type.
C. 8 unicast and 24 multipoint.
D. 8 unicast and 8 multipoint.
E. 16 queues, distributed as desired.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 17
If traffic is destined to queue 5, which has a high-priority-only value of 0 in the network-queue policy, all out-of-profile packets will be dropped.

A. TRUE
B. FALSE

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 18
On the Alcatel-Lucent 7750 SR, where can network-queue policies be applied? (Choose two)

A. On the network egress port.
B. On the SDP.
C. On the access ingress port.
D. On the egress MDA.
E. On the SAP.
F. On the ingress MDA.

Correct Answer: AF
Section: (none)
Explanation

Explanation/Reference:

QUESTION 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)

```
A:sr1a>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              O.CIR      O.PIR
------------------------------------------------------------------
be l2              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 "11 "will never make use of the shared buffer pool.
E. Out-of-profile traffic in the shared buffer pool is being dropped.

Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 20
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.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 21
Which of the following statements describe the primary objectives of the policing of traffic flows on the Alcatel-Lucent 7750 SR? (Choose two)

A. Ensure that traffic flows conform to their traffic profile.
B. Log violations of metered traffic flows exceeding the CIR value set on the entity across which the traffic is moving.
C. Provide fairness between traffic flows, so that conforming (in-profile) traffic flows are not starved of bandwidth and/or buffer space by non-conforming (out-ofprofile) flows.
D. Minimize packet loss and reduce end to end latency.
E. Ensure that variable latencies do not cluster short bursts of originally conforming packets and render them nonconforming.

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 22
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

Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 23
It is necessary for Tier 1 schedulers to obtain bandwidth from a higher tier scheduler.

A. TRUE
B. FALSE

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 24
In which of the following scenarios is the egress port scheduler useful? (Choose two)

A. A customer is complaining that his VoIP traffic is being dropped even though it is sending the correct DSCP markings. Packets are not being dropped on ingress.
B. A customer is complaining that his VoIP traffic is being dropped even though it is sending the correct DSCP markings. Packets are being dropped on ingress.
C. A commercial builder has requested numerous dot1Q epipes, VPRNs, and VPLS services to a business park and is only paying up to a maximum 200Mbps.
D. An equipment manufacturer has requested a NULL epipe service that will transparently pass dot1Q between the new location and national headquarters.

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 25
Policing improves bandwidth utilization by using buffering to absorb high bursts of traffic.

A. TRUE
B. FALSE

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 26
On the Alcatel-Lucent 7750 SR, which of the following QoS-related policies can be configured on a SAP? (Choose three)

A. The slope-policy
B. The SAP-ingress policy
C. The SAP-egress policy
D. The network-queue policy
E. The scheduler-policy

Correct Answer: BCE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 27
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.

Correct Answer: B

Section: (none)
Explanation

Explanation/Reference:

QUESTION 28
When using an egress port scheduler, on which scheduling loop are orphaned queues serviced?

A. Level 8 within CIR.
B. Level 8 between CIR and PIR.
C. Level 8, once all PIR is serviced.
D. Level 1 within CIR.
E. Level 1 between CIR and PIR.
F. Level 1, once all PIR is serviced.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 29
Which of the following statements regarding the egress port scheduler is TRUE?

A. The egress port scheduler can have up to 17 children spread across 8 levels.
B. Multiple egress port schedulers can be assigned to a single port with many HQoS children.
C. Multiple HQoS policies can be children of a single port scheduler.
D. Multiple egress port schedulers can be children of a single HQoS scheduler.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 30

Traffic assigned to forwarding classes is placed into queues, while the contents of the queues are serviced in a controlled manner using_____.

A. WRED
B. shapers
C. schedulers
D. markers
E. weighted fair queues (WFQ)

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 31
To implement Hierarchical-QoS (Multi-tiered scheduling), which of the following actions must be undertaken? (Choose three)

A. H-QoS capabilities must be enabled globally on the router
B. A scheduler-policy must be configured.
C. The queues in the SAP-ingress and SAP-egress policies do not require additional configuration attributes to make use of the hierarchical schedulers.
D. The network queue policy must be configured to make use of the scheduler-policy.
E. The scheduler-policy must be referenced in the SAP-ingress and SAP-egress policies.
F. The scheduler-policy must be applied on the service SAP.

Correct Answer: BEF
Section: (none)
Explanation

Explanation/Reference:

QUESTION 32
Which of the following statements regarding policing and shaping on the Alcatel-Lucent 7750 SR are TRUE? (Choose two)

A. The larger the configured MBS value, the lower the amount of shaping performed.
B. When policing is enabled on the SAP-ingress, all traffic is considered as in-profile.

C. Setting the CIR to 1000 and the PIR to max will enable shapeless policing at 1 Mbps within the SAP-egress policy.
D. Configuring MBS to equal CBS will disable shaping.
E. Setting the CIR and PIR to equal values disables soft-policing.

Correct Answer: BE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 33
Click the exhibit button below. Given this scheduler-policy configuration, which of the following can be said about the scheduler called "high"? (Choose two)

```
A:sr1a>config>qos>scheduler-policy# info
---------------------------------------------------
            tier 1
                scheduler "Root" create
                    description "This is the root scheduler"
                    rate 50000 cir 50000
                exit
            exit
            tier 2
                scheduler "high" create
                    description "High priority traffic"
                    parent "Root" level 5 cir-level 5
                    rate 30000 cir 25000
                exit
            tier 3
                scheduler "low" create
                    description "Low priority traffic"
                    parent "high" level 2 cir-level 2
                    rate 50000 cir 10000
                exit
            exit
---------------------------------------------------
```

A. It is a parent scheduler.

B. It is the top-level scheduler.

C. It can allocate up to 50 Mbps of bandwidth to scheduler "low" since the bandwidth is not used by another Tier 3 scheduler.

D. It is a child scheduler.

E. It can only have queues as children.

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 34
At which points can traffic be marked or remarked on the Alcatel-Lucent 7750? (Choose two)

A. SAP-ingress only

B. SAP-egress only

C. SAP-ingress and SAP-egress

D. Network ingress

E. Network egress

Correct Answer: CE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 35
Which of the following statements regarding egress FC and profile over-ride are TRUE? (Choose two)

A. Packets can be classified into 16 different FCs when using priority mode queuing.

B. This feature is available on egress SAPs within any service.

C. MPLS EXP bits can be changed based on multi-field classification.

D. If a Behavior Aggregate (BA) and Multi-field (MF) match occurs, only the MF override parameters will take effect.

E. If a Behavior Aggregate (BA) and Multi-field (MF) match occurs, the BA classification can override the forwarding class while the MF classification can override the profile.

Correct Answer: BE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 36
Which of the following are trusted boundaries, by default? (Choose two)

A. An IES SAP
B. A VPLS SAP
C. A network port
D. AVPRN SAP
E. An access port

Correct Answer: CD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 37
A service provider is using GRE for his transport tunnel on the Alcatel-Lucent 7750 SR. How can traffic be marked as it traverses the service provider's network? (Choose two)

A. Using dot1p bits of the 802.1q Ethernet frame header
B. Using DSCP bits within the ToS field of the IP packet header.
C. Using the IP precedence bits within the ToS field of the IP packet header.
D. Using the CLP bit of the ATM cell header.
E. Using the EXP bits of the MPLS transport label header.

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

QUESTION 38
Click the exhibit button below. Given the SAP-ingress policy, which of the following statements are TRUE? (Choose three)

```
A:sr1a>config>qos>sap-ingress# info
----------------------------------------------
            queue 1 create
            exit
            queue 3 profile-mode create
                rate 50000 cir 10000
             exit
            queue 5 create
                parent "high" level 7 weight 100 cir-level 7
                rate 30000 cir 20000
             exit
            queue 6 create
                parent "high" level 8 weight 100 cir-level 8
                rate 2000 cir 2000
             exit
            queue 11 multipoint create
            exit
            fc "af" create
                queue 3
                profile in
            exit
            fc "ef" create
                queue 6
            exit
            fc "h2" create
                queue 5
            exit
            ip-criteria
                entry 10 create
                    match protocol tcp
                        dst-port eq 1234
                    exit
                    action fc "ef" priority high
                exit
                entry 15 create
                    match protocol udp
                    exit
                    action fc "h2"
                exit
                entry 20 create
                    match protocol icmp
                    exit
                    action fc "h2"
                exit
            exit
```

A. All AF traffic will be marked "in-profile" at the SAP-ingress.
B. All TCP traffic will be mapped to forwarding class EF.
C. UDP traffic is placed in queue 3 while ICMP traffic is placed in queue 5.
D. EF traffic will receive higher scheduling priority than H2 traffic.
E. Traffic that does not match any of the IP criteria will be placed in queue 3.

Correct Answer: ADE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 39
On the Alcatel-Lucent 7750 SR, what is a slope policy used for?

A. Defining the slope of the TCP slow-start mechanism for self generated traffic.
B. Defining the slope of the scheduling rate per forwarding class when using HQoS.
C. Defining the high and low slope values when deploying buffer admission control for UDP traffic in the committed buffer pool.
D. Defining the high and low slope values when deploying buffer admission control for TCP traffic in the shared buffer pool.
E. Defining the high and low slope values when deploying buffer admission control for TCP traffic in the committed buffer pool.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 40
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.
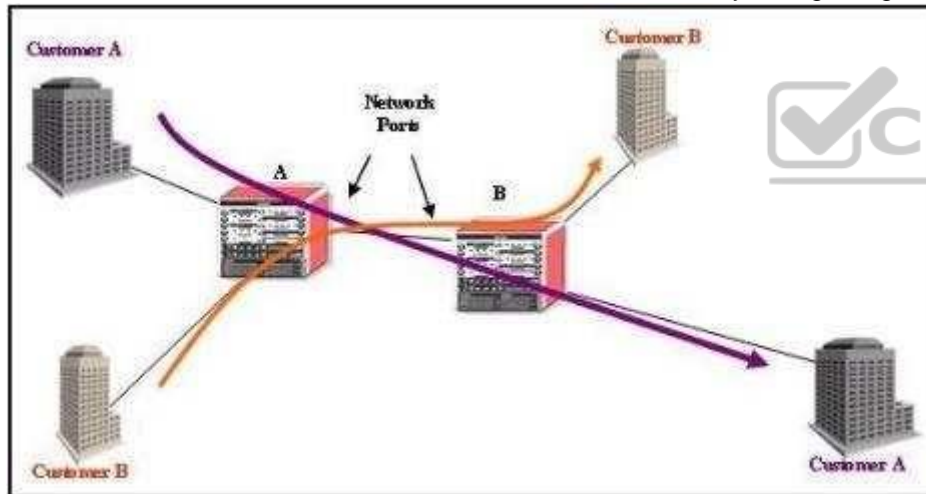
Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 41
Click the exhibit button below. Each router is interconnected by a single GigE link, as shown in the diagram below.

Note: The arrows show the direction of traffic flow.

Traffic from Customer A and Customer B that is classified to the same forwarding class is queued together at the ingress of Router B.

A. True
B. False

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 42
Which of the following QoS functions does the slope-policy perform?

A. Classification
B. Marking
C. Queuing
D. Congestion management
E. Scheduling

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 43
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

C. Ingress Ethernet network ports
D. Egress Ethernet network ports
E. Service SAPs

Correct Answer: ACE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 44
Which of the following parameters are used in a hierarchical scheduler-policy to specify the priority of the child scheduler/queue for allocating bandwidth beyond its committed rate? (Choose two)

A. CIR
B. CIR level
C. CIR weight
D. Rate
E. Level
F. Weight

Correct Answer: EF
Section: (none)
Explanation

Explanation/Reference:

QUESTION 45
With hierarchical scheduling, up to _____ tiers are supported on the Alcatel-Lucent 7750 SR.

A. 8
B. 3
C. 4
D. 5
E. 6

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 46
Real-time rate limiting on the service ingress is a feature that performs_____. Traffic above the defined PIR is _____.

A. Policing, expedited
B. Metering, marked discard eligible
C. Marking, marked discard eligible
D. Policing, discarded
E. Shaping, discarded

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 47
Which of the following statements regarding scheduling on the Alcatel-Lucent 7750 SR is TRUE? (Choose two)

A. When using profile-mode queues, traffic that is marked as in-profile on ingress and scheduled in the above-CIR loop will still be considered as in-profile at egress.
B. When an HQoS strategy using an egress port-scheduler has been deployed, Tier 1 receives its scheduling rates based on the amount of egress bandwidth available for each forwarding class.
C. The greater the difference between PIR and CIR rates in a queue, the less likely a CIR will be provided.
D. Packets scheduled out of high-priority queues in the default scheduler will have a lower chance of packet loss at the expense of incurring a higher probability of delay.
E. When using priority-mode queues, traffic that is marked as in-profile on ingress and scheduled in the above-CIR loop will be considered as in-profile at egress.
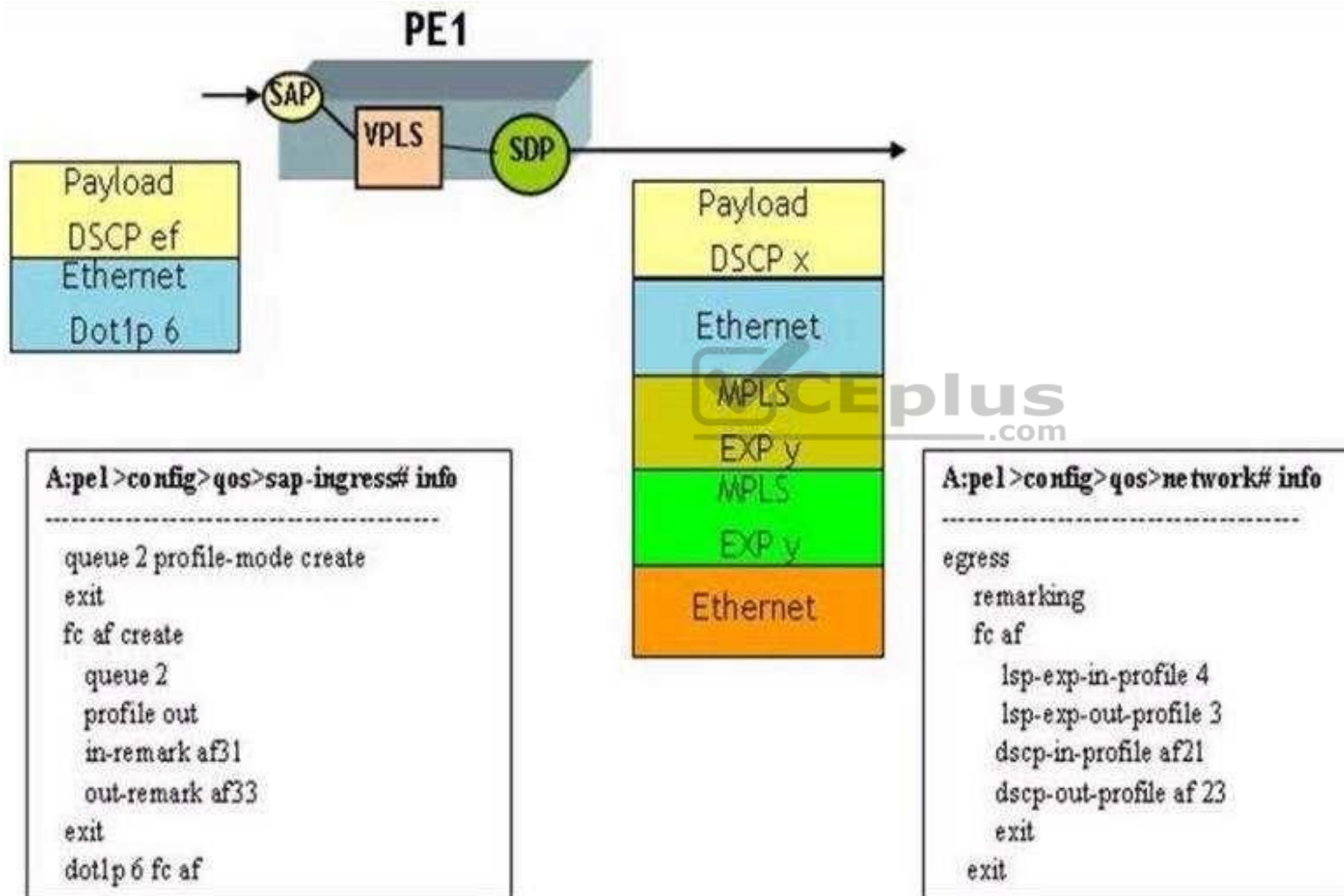
Correct Answer: AC

Section: (none)
Explanation

Explanation/Reference:
QUESTION 48
Click the exhibit button below.

PE1

SAP
VPLS
SDP

Payload
DSCP ef
Ethernet
Dot1p 6

Payload
DSCP x
Ethernet
MPLS
EXP y
MPLS
EXP y
Ethernet

```
A:pe1>config>qos>sap-ingress# info
---------------------------------------------
   queue 2 profile-mode create
   exit
   fc af create
      queue 2
      profile out
      in-remark af31
      out-remark af33
   exit
   dot1p 6 fc af
```

```
A:pe1>config>qos>network# info
---------------------------------------------
   egress
      remarking
      fc af
         lsp-exp-in-profile 4
         lsp-exp-out-profile 3
         dscp-in-profile af21
         dscp-out-profile af 23
         exit
      exit
```

At router PE1, customer packets are arriving tagged with a dotlp value of 6 and marked with a DSCP value of EF.

Based on the configuration shown below for a VPLS service, what will be the DSCP and EXP marking for the packet egressing the network port on this PE router?
(Choose two)

A. The DSCP value will be set to af21.
B. The DSCP value will be set to af23.
C. The DSCP value will remain as ef.
D. The EXP value, in the MPLS headers, will be set to 4.
E. The EXP value, in the MPLS headers, will be set to 3.

Correct Answer: CE
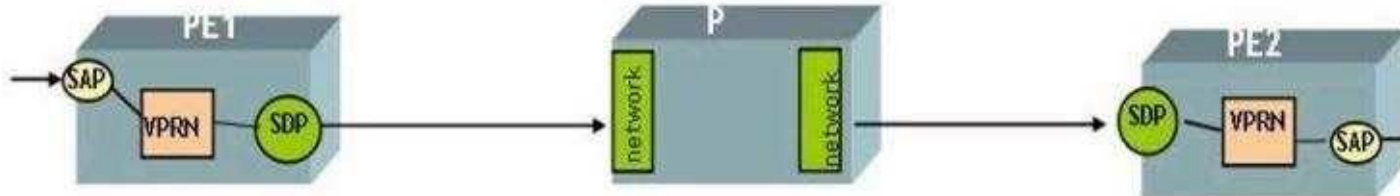**Section: (none)**
Explanation

Explanation/Reference:

QUESTION 49
Click the exhibit button below.

Default trust states for all interfaces

PE1

SAP

VPRN

SDP

P

network

network

PE2

SDP

VPRN

SAP

A:pe1>config>qos>sap-ingress# info

```
  queue 2 profile-mode create
  exit
  fc af create
    queue 2
    profile out
    in-remark af22
    out-remark af23
  exit
  dot1p 3 fc af
```

A:pe1>config>qos>network# info

```
  egress
    remarking
    fc af
      lsp-exp-in-profile 5
      lsp-exp-out-profile 4
      dscp-in-profile af21
      dscp-out-profile af 23
    exit
  exit
```

A:p>config>qos>network# info

```
  egress
    no remarking
    fc af
      lsp-exp-in-profile 2
      lsp-exp-out-profile 3
      dscp-in-profile af21
      dscp-out-profile af 23
    exit
  exit
```

A:p>config>qos>network# info

```
  ingress
    lsp-exp 4 fc af profile out
    lsp-exp 5 fc af profile in
    dscp af33 fc af profile out
    dscp af31 fc af profile in
  exit
```

A:pe2>config>qos>sap-egress# info
```
    queue 3 create
    queue 5 create
    exit
    fc af create
      queue 3
      dot1p 5
      dscp af12
    exit
    fc l1 create
      queue 5 create
      dot1p 2
      dscp be
    exit
  exit
```

A:pe2>config>qos>network# info

```
  ingress
    lsp-exp 2 fc l1 profile in
    lsp-exp 3 fc l1 profile out
    lsp-exp 4 fc af profile out
    lsp-exp 5 fc af profile in
    dscp af33 fc af profile out
    dscp af31 fc af profile in
    dscp af21 fc l1 profile in
    dscp af23 fc l1 profile out
  exit
```

All interfaces are using their default trust states and MPLS is used as the transport tunnel. The SAP-ingress, SAP-egress, and network QoS policies have been configured as shown below. Assume that the default network-queue policy is used on each router.
At router PE 1, customer traffic is arriving marked with DSCP BE and tagged with a dot1p value of 3.

Based on the configuration shown below for the VPRN service, what will be the DSCP and dot1p marking for the packet egressing at router PE 2? (Choose two)

A. The DSCP value will be set to af21.
B. The DSCP value will be set to be.
C. TheDSCPvaluewillbesettoaf23.
D. The DSCP value will be set to af 12.
E. Thedot1pvaluewillbesetto5.
F. Thedot1pvaluewillbesetto2.
G. The dot1p value will be set to 3.

Correct Answer: DE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 50
In which policies, on the Alcatel-Lucent 7750 SR. is classification performed? (Choose three)

A. SAP-ingress policy
B. SAP-egress policy
C. IP-criteria policy
D. Network-queue policy
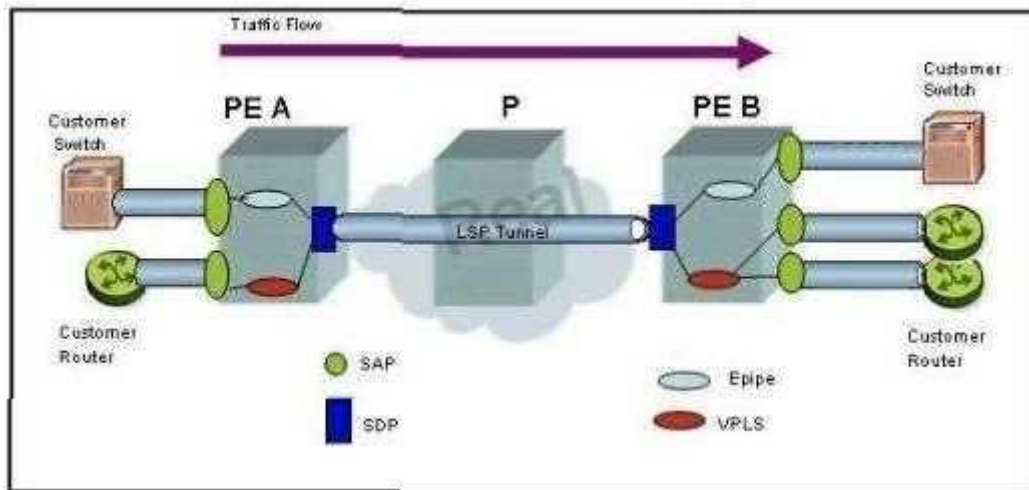E. Slope policy
F. Network policy

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 51
Click the exhibit button below. The service provider has both a VLL (epipe) service and a VPLS, as shown in the diagram below.

At router PE B, traffic arriving from both services will have the same network-queue policy applied.
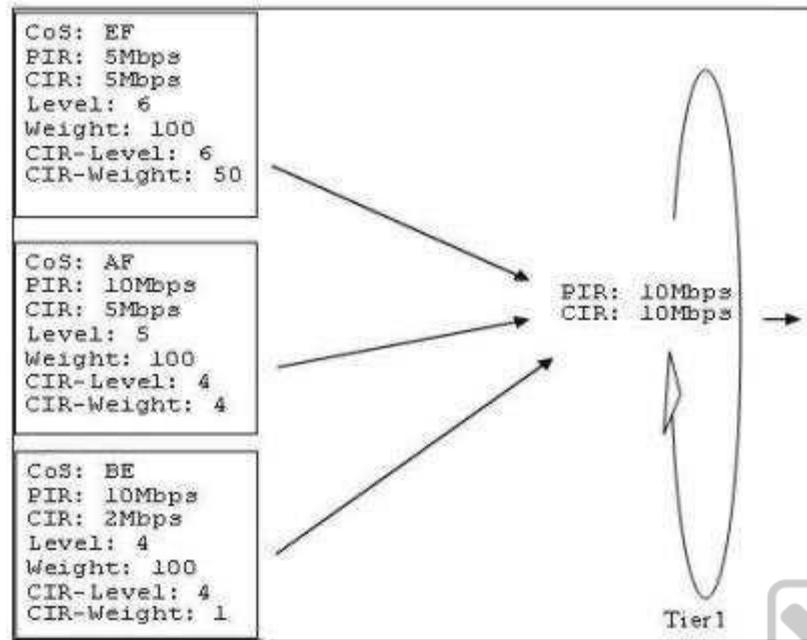
A. TRUE
B. FALSE

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 52
Click the exhibit button below. Given the scheduler-policy (below), which of the following can be done to 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.

Correct Answer: AD
Section: (none)

Explanation

Explanation/Reference: