

4A0-107.exam.62q

Number: 4A0-107
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4A0-107

Alcatel-Lucent Quality of Service

Exam A

QUESTION 1



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

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- A. 1
- B. 2
- C. 3
- D. 4
- E. 5
- F. 8



Correct Answer: A

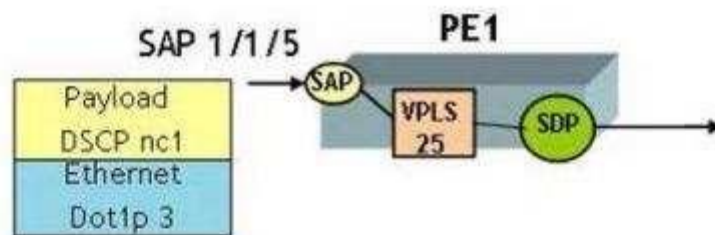
Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

Click the exhibit button below.



```

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
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 3

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 4

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

- A. TRUE
- B. FALSE

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

Which of the following are NOT ingress matching criteria for a network policy? (Choose two)

- A. TCP port numbers
- B. LSP EXP
- C. DSCP
- D. Source and destination IP addresses
- E. Dot1p priority



Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

Click the exhibit button below. A partial SAP-ingress policy configuration is shown below. A UDP video stream is sent to a PC with IP address 192.168.1.100. Given the SAP-ingress policy, to which forwarding class is the traffic matched?

```
A:srla>config>qos>sap-ingress# info detail
----- output omitted -----
      ip-criteria
        entry 10 create
        match dst-ip 192.168.1.99/32
        exit
        action fc "af"
      exit
      entry 20 create
      match protocol udp
      exit
      action fc "ef"
    exit
    entry 30 create
    match protocol udp
      dst-ip 192.168.1.100/32
    exit
    action fc "h2"
  exit
  entry 40 create
  match protocol icmp
  exit
  action fc "h1"
exit
default-fc "be"
-----
```

- A. AF
- B. EF
- C. H2
- D. H1E. BE

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

On an Alcatel-Lucent IOM 3, how is buffer memory allocated per forwarding complex?

- A. 512 MB ingress, 512 MB egress
- B. 256 MB ingress, 256 MB egress
- C. 1 GB dynamically allocated between ingress and egress.
- D. 768 MB dynamically allocated between ingress and egress.
- E. 768 MB, with a minimum of 256 MB ingress and egress, and an additional 256 MB dynamically allocated.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:



QUESTION 8

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



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- A. TRUE
- B. FALSE

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

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 10

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 11

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 "af" 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 12

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 13

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 14

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 15

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 16

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



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- 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 17

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: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      O.CIR      O.PIR
-----
```

```
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 "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 18

A queue is configured with the following attributes:

MBS = 10KB

CBS = 5KB

High-Priority-Only = 20%

Assume that there is no CBS overbooking and that the slope-policy is disabled. If the current queue depth is 3KB, what will happen to an out-of-profile packet arriving at an egress queue?

- A. It will be queued in the reserved portion of the buffer pool and remain out-of-profile.
- B. It will be queued in the reserved portion of the buffer pool if there are no in-profile packets already in the queue.
- C. It will be queued in the reserved portion of the buffer pool and be 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: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

A physical port has three associated buffer pools. Which of the following buffer pool combinations is associated to a physical port?

- A. Access ingress, access egress, network egress
- B. Access ingress, network ingress, network egress
- C. Port ingress, port egress, shared bi-directional
- D. Port ingress, port egress, network egress
- E. Port ingress, network ingress, network egress

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20

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



Correct Answer: ACF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

To manage the shared buffer space at network ports, slope policies are applied on _____ for the ingress direction, and on _____ or _____ for the egress direction.

- A. Interfaces, ports, SAPs
- B. Ports, ports, MDAs
- C. MDAs, MDAs, ports
- D. Interfaces, interfaces. MDAs
- E. MDAs, ports, interfaces

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 23

Click the exhibit button below. A service provider has applied the SAP-ingress policy configuration below on his customer's SAP. The service provider notices that all of the customer's traffic is being dropped at the SAP-ingress. Which of the following actions can resolve the problem, if applied on its own? (Choose three)



```
A:srl1>config>qos>sap-ingress# info
```

```
-----  
    queue 1 create  
    exit  
    queue 3 profile-mode create  
        rate 50000 cir 0  
        high-prio-only 100  
    exit  
    queue 11 multipoint create  
    exit  
    fc "af" create  
        queue 3  
        profile out  
    exit  
    default-fc af  
-----
```

- A. Set the CIR of queue 3 to a non-zero value corresponding to the customer's expected bandwidth requirements.
- B. Set queue 3 to use priority mode.
- C. Set the traffic classification of packets to in-profile.
- D. Set the high-priority-only value to 0.
- E. Map AF traffic to queue 1

Correct Answer: CDE

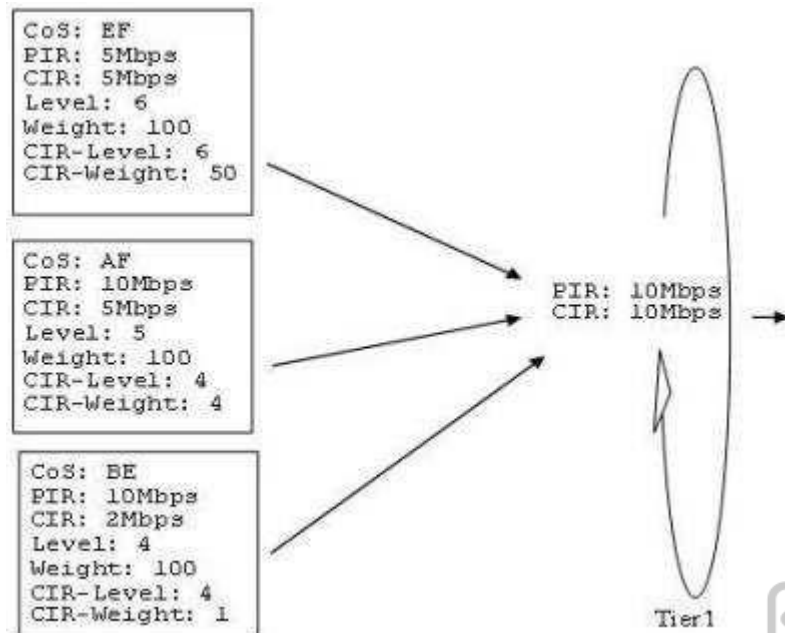
Section: (none)

Explanation

Explanation/Reference:

QUESTION 24

Click the exhibit button below. Given the scheduler-policy (below), how much bandwidth can the best-effort traffic receive (PIR and CIR) when the ingress rate of each queue is 10Mbps?



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- A. PIR = 4Mbps. CIR = 1Mbps
- B. PIR = 1Mbps, CIR = 1 Mbps
- C. PIR = 10Mbps, CIR = 1Mbps
- D. PIR = 5Mbps, CIR = 1.25Mbps
- E. PIR = 1.25Mbps, CIR = 1.25Mbps

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 25

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 26

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-of-profile) 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 27

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 28

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 29

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 30

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 31

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 32

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 33

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 34

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 35

A packet is to be encapsulated inside an MPLS tunnel which consists of two MPLS headers at the first network egress. Which of the MPLS EXP fields will be marked?

- A. The EXP field in the bottom MPLS header will be marked.
- B. The EXP field in both the top and bottom MPLS headers will be marked.
- C. For Layer 2 services, the top MPLS header will be marked; for Layer 3 services, the bottom MPLS header will be marked.
- D. The EXP field in the top MPLS header will be marked.
- E. Neither the top nor the bottom EXP field will be marked since EXP remarking can only be done on the network ingress.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 36

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

Section: (none)

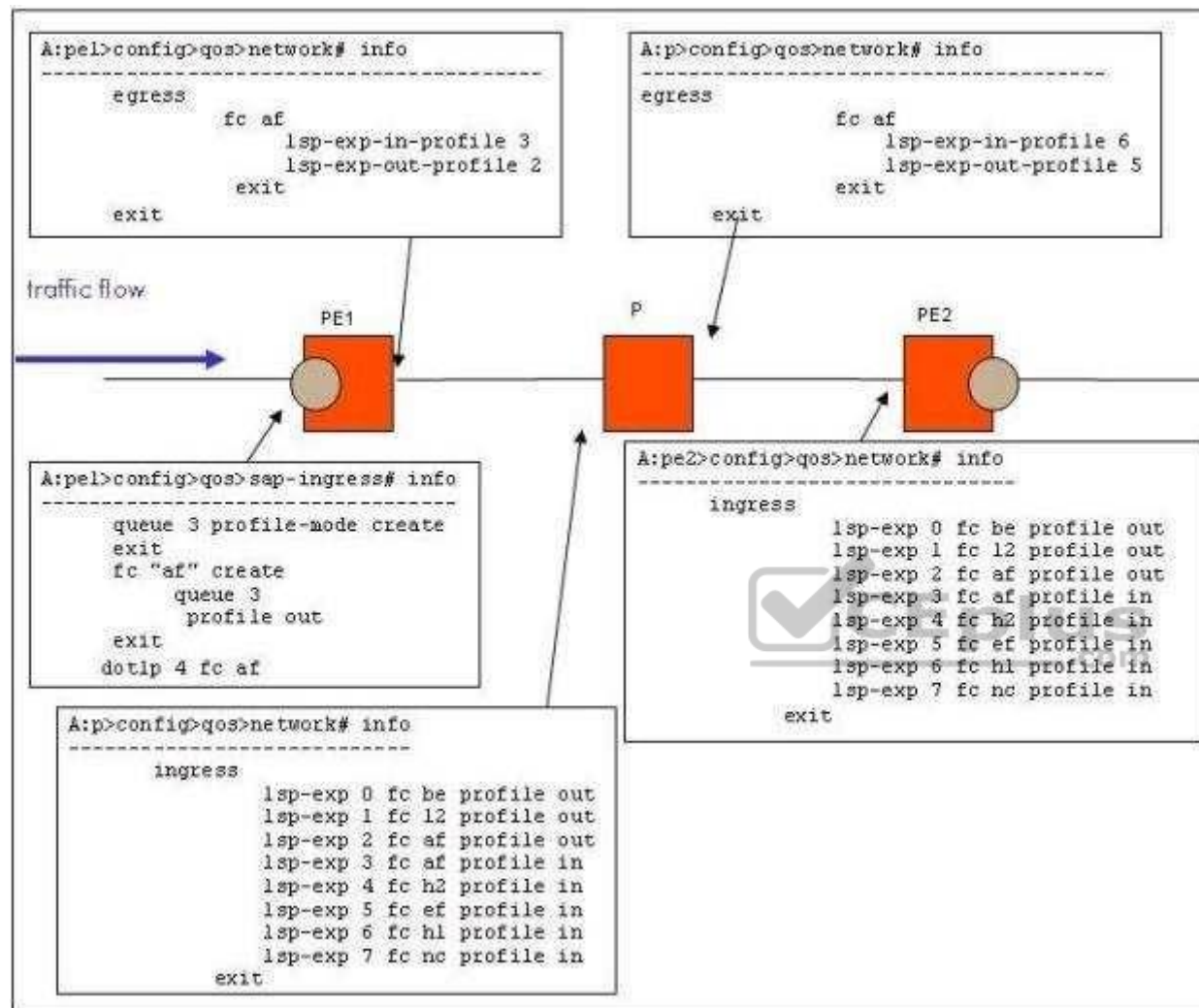
Explanation

Explanation/Reference:

QUESTION 37

Click the exhibit button below. Traffic arriving at router PE 1 is marked with a dot1p value of 4. Given the network policies applied on the routers in the diagram below, what is the EXP value of packets arriving at router PE 2?





Note: Only relevant portions of the network policy are shown.

- A. 2
- B. 3
- C. 5

- D. 6
- E. None of the above.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 38

Which of the following statements are TRUE regarding the remarking of packets arriving on the network interface whose ToS-marking-state is set to trusted and remarking enabled on network egress? (Choose two)

- A. Native IP Packets will not be remarked.
- B. Native IP Packets will be remarked.
- C. Packets associated with a VPRN service on an upstream node will not be remarked.
- D. Packets associated with an ES service on an upstream node will be remarked.

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 39

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 40

Without_____, a customer's high priority traffic can be dropped before its low priority traffic.

- A. packet filtering
- B. prioritization of traffic flows
- C. least cost routing
- D. OAM functionality
- E. separation between the data plane and the control plane

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:



QUESTION 41

Which of the following statements are TRUE? (Choose two)

- A. The primary contributors to latency are distance, scheduling, and congestion.
- B. The weighted round robin scheduling algorithm will result in more delay for high priority traffic than the regular round robin algorithm.
- C. The round robin scheduling algorithm will result in less jitter for low priority traffic than a strict priority scheduler.



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- D. Packet loss can be reduced by decreasing the amount of buffer space available to a queue.
- E. Latency can be reduced by increasing the amount of buffer space available to a queue.

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 42

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:srla>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

Section: (none)

Explanation

Explanation/Reference:

QUESTION 43

Which of the following are possible criteria for classifying packets at the SAP-ingress? (Choose three)

- A. The EXP bits in the MPLS header.
- B. The packet's source and destination IP addresses.
- C. The service ID of the service to which the SAP belongs.
- D. The dot1p bits in the frame header.
- E. The packet's Ethertype.

Correct Answer: BDE

Section: (none)

Explanation

Explanation/Reference:



QUESTION 44

Which of the following statements is considered best practice when changing a network policy that has been associated with an interface?

- A. The policy should be placed in a "shutdown" state before changes are made.
- B. A new network policy should be created and applied to the interface, overwriting the previous policy.
- C. The policy must first be removed from the interface, then modified and re-applied to the interface.
- D. Before the policy can be changed, it must be deleted with the no network qos <policy-id> command.
- E. Before any changes are made to the policy, all network interfaces where the policy is applied have to be shut down.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 45

Which of the following statements regarding buffer pool allocation are FALSE? (Choose two)

- A. Each network egress port receives its own buffer pool.
- B. Each SAP-egress port receives its own buffer pool.
- C. All SAP-ingress ports on the same MDA share a buffer pool.
- D. All the network ingress ports on the same MDA share a buffer pool.
- E. Each network ingress port on the same MDA receives its own buffer pool.

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 46

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




```
A:srla>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 47

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 48

On the Alcatel-Lucent 7750 SR, how many queues per FC are available for multipoint traffic within a VPLS on service ingress?

- A. 64
- B. 8
- C. 3
- D. 16
- E. 1

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 49

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

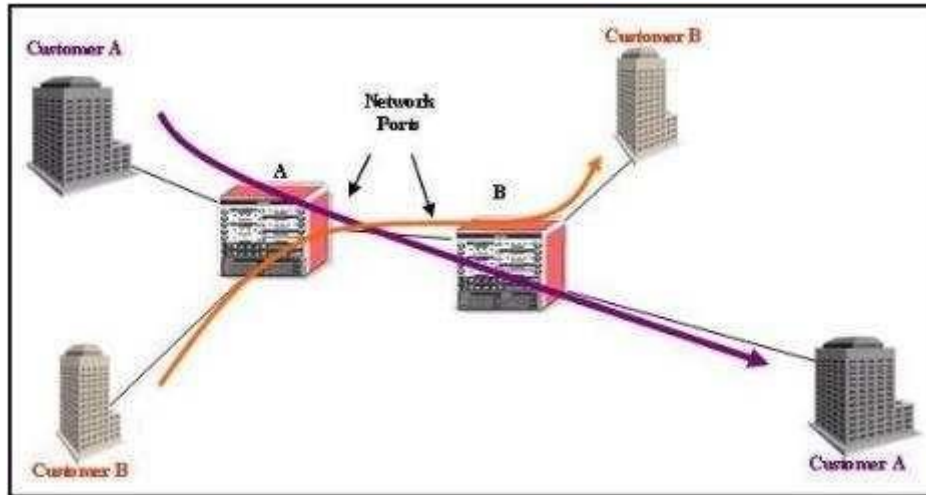
Section: (none)

Explanation

Explanation/Reference:

QUESTION 50

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 51

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 52

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 53

When allocating scheduling resources, which of the following statements BEST describes how the egress port scheduler allocates bandwidth?

- A. The egress port scheduler takes the ratio of requested bandwidth to total bandwidth request from all children. It allocates bandwidth fairly, using these percentages and not exceeding the egress interface speed.
- B. The egress port scheduler allocates bandwidth based on a WRR distribution method that takes into account the CIR and PIR requested at each level and the max speed, either default or configured, on egress.
- C. The egress port scheduler allocates bandwidth on a first come, first served distribution method that takes into account the total CIR and PIR requested at each level and the max PIR requested from a single level.
- D. The egress port scheduler will limit the bandwidth offered to the egress port based on the over-subscription factor, provisioned under the router interface, while using a WRR scheduler for the remaining bandwidth.
- E. The egress port scheduler will use the Russian Dolls Method to allocate bandwidth to each level of requested bandwidth. HPO-Only is automatically set to 100% , allowing only high priority traffic to be buffered during congestion.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 54

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 55

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 56

Based on queue usage, which of the following QoS-policies when combined will allow queue rates to be dynamically allocated? (Choose two)

- A. The slope-policy
- B. The SAP-ingress policy
- C. The network-queue policy
- D. The scheduler-policy
- E. The network-policy
- F. The WRED-policy
- G. The arbitrator-policy

Correct Answer: BD

Section: (none)

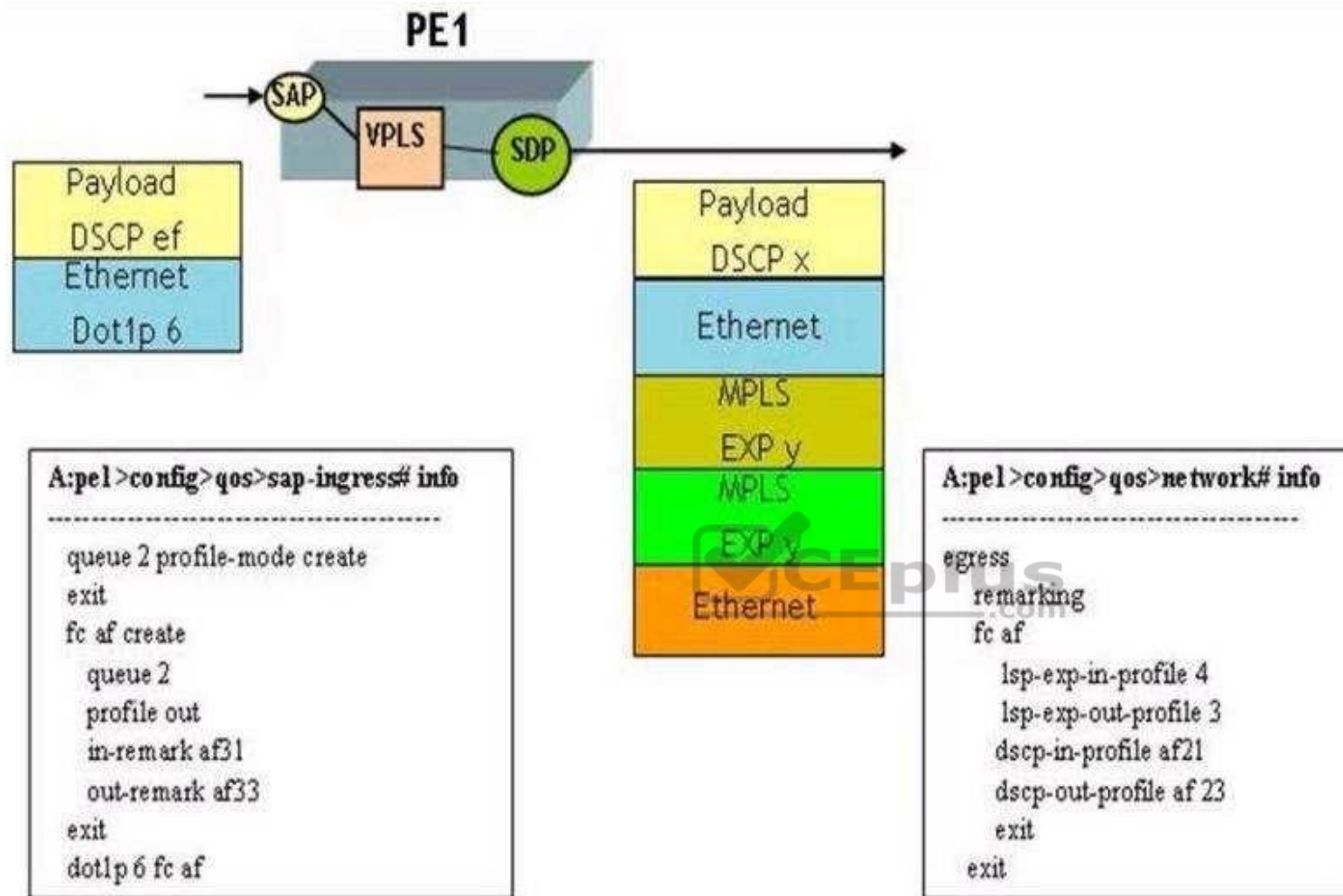
Explanation

Explanation/Reference:

QUESTION 57

Click the exhibit button below.





At router PE1, customer packets are arriving tagged with a dot1p 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

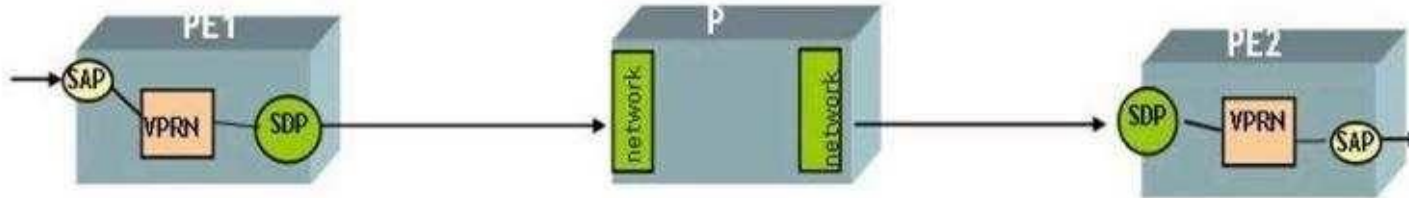
Explanation/Reference:

QUESTION 58

Click the exhibit button below.



Default trust states
for all interfaces



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 af1 2
exit
fc ll create
queue 5 create
dot1p 2
dscp be
exit
```

A:pe2>config>qos>network# info

```
-----
ingress
  lsp-exp 2 fc ll profile in
  lsp-exp 3 fc ll 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 ll profile in
  dscp af23 fc ll 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. The DSCP value will be set to af23.
- D. The DSCP value will be set to af 12.
- E. The dot1p value will be set to 5.
- F. The dot1p value will be set to 2.
- G. The dot1p value will be set to 3.

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:



QUESTION 59

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.
- C. The 3 priority bits are copied directly from the dot1p header into the EXP field of the first MPLS header.
- D. The EXP bits are set based on a default map that translates DSCP codes into internal forwarding classes on SAP-ingress.

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 60

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 61

Which of the following are categories of forwarding classes on the Alcatel-Lucent 7750 SR? (Choose two)

- A. Real-time
- B. Assured
- C. Non-conforming
- D. High priority
- E. In-profile

Correct Answer: AD

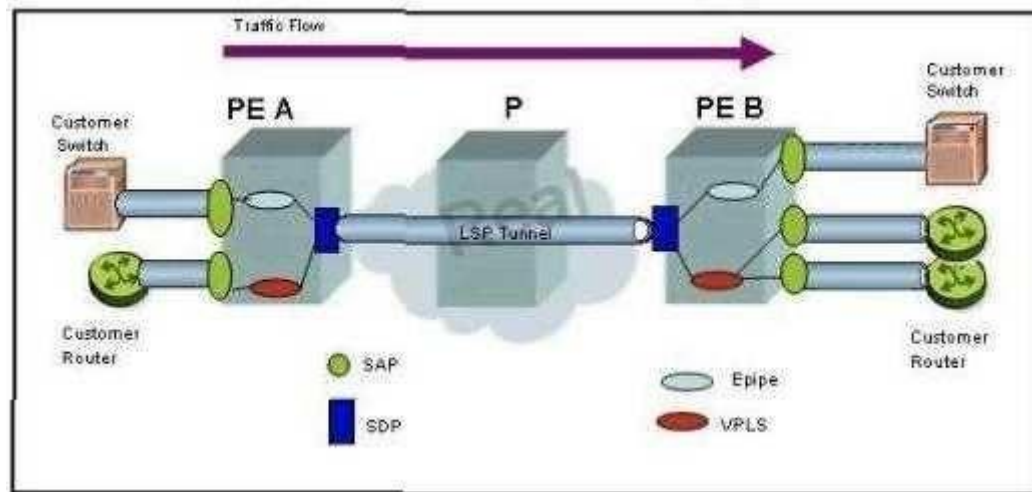
Section: (none)

Explanation

Explanation/Reference:

QUESTION 62

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:



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