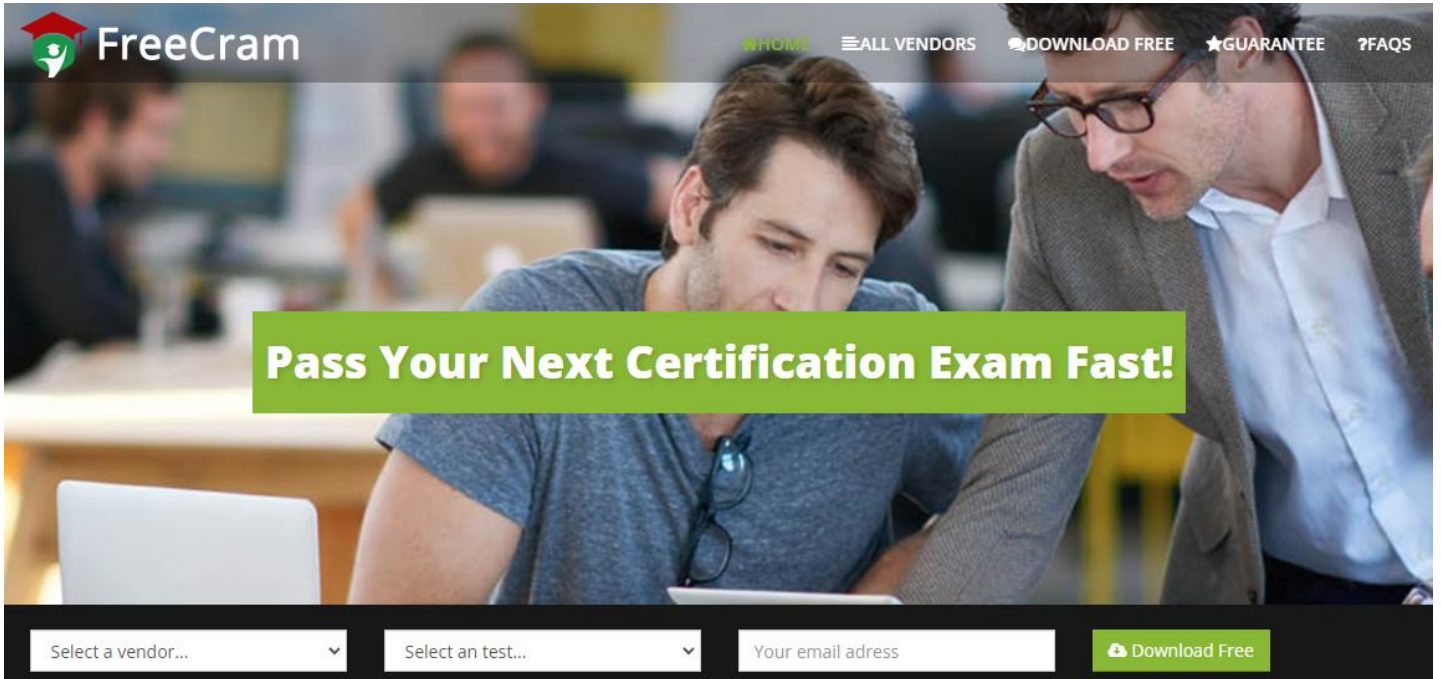


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Exam : **4A0-107**

Title : Alcatel-Lucent Quality of Service

Vendor : Alcatel-Lucent

Version : DEMO

NO.1 Which of the following statements regarding DSCP bits are TRUE? (Choose three)

- A. DSCP provides for eight drop probabilities.
- B. The full 8 bits of the TOS field are used for DSCP.
- C. The three most significant (first) bits define 8 forwarding classes.
- D. The three least significant (last) bits of the DSCP specify the drop probability.
- E. To convert DSCP to IP precedence, the three most significant (first) bits are matched.

Answer: C,D,E

NO.2 Which of the following parameters is taken into account FIRST when a CFHP arbiter allocates bandwidth among its children policers?

- A. PIR
- B. CIR
- C. Level
- D. Weight

Answer: D

NO.3 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
- B. $100\text{Mbps} * 20/(80 + 20) = 20 \text{ Mbps}$
- C. $100 + 100 * 20/(80 + 20) = 120 \text{ Mbps}$
- D. $100\text{Mbps} * 80/(80 + 20) = 80 \text{ Mbps}$

Answer: A

NO.4 Which of the following policies does NOT exist by default on a network port?

- A. A slope policy for the port on ingress.
- B. A network queue policy for the port on egress.
- C. A network policy for every network interface configured on the port.
- D. A network queue policy for the corresponding MDA on ingress.

Answer: C

NO.5 Which of the following statements describes a queue's weight parameter that is used in the hierarchical scheduling?

- A. The weight is used to determine how this queue and other queues or schedulers at the same level share available above CIR bandwidth at that level.
- B. The weight is used to determine how this queue and other queues or schedulers at the same CIR-level share available CIR bandwidth at that level.
- C. The weight specifies the priority of the queue during scheduling up to its CIR.
- D. The weight specifies the priority of the queue during scheduling above-CIR, up to its PIR.

Answer: A

NO.6 Which of the following statements BEST defines policing?

- A.** The process of discarding packets within a traffic stream in accordance with the state of a meter to enforce a defined traffic profile.
- B.** The action of setting the DiffServ codepoint of a packet prior to its entry into a downstream DiffServ domain.
- C.** The process of delaying packets within a traffic stream to have them conform to a defined traffic profile.
- D.** The overall treatment of a defined subset of a customer's traffic within a DiffServ domain.
- E.** A specified algorithm or operation that is implemented in a node in order to realize one or more per-hop behaviors.

Answer: A

NO.7 In a Nokia 7750 SR, which of the following is a class type that is intended for non-real-time customer traffic that requires some committed bandwidth?

- A.** Gold
- B.** Assured
- C.** High Priority
- D.** Best Effort

Answer: C

NO.8 A frame belonging to a Layer 2 service is encapsulated in an MPLS tunnel at a network-egress port. Which of the following fields in the frame can be marked or remarked at the network egress port?

- A.** EXP
- B.** DSCP
- C.** PREC
- D.** ToS

Answer: A

NO.9 Which of the following is NOT a reason for configuring a slope policy on a queue?

- A.** To force the TCP algorithm to increase its transmission window upon detecting a congestion.
- B.** To control any traffic flowing through the shared buffer space of the queue.
- C.** To limit the number of the TCP sessions that go into slow start during congestion.
- D.** To have control over the amount of the low priority packets that enter the queue.

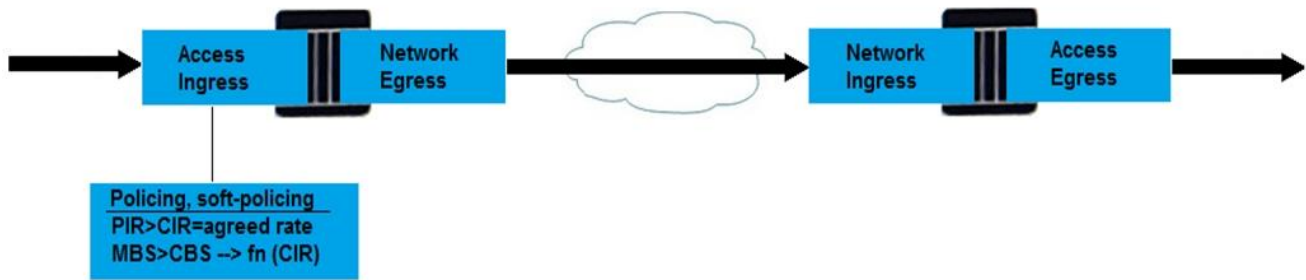
Answer: A

NO.10 Which of the following fields is in the MPLS header?

- A.** 802.1p bits
- B.** Precedence
- C.** EXP
- D.** DSCP

Answer: C

NO.11



In the diagram shown above, applying policing and soft-policing on access ingress is typical for which of the following types of traffic?

- A. Assured
- B. Real-time
- C. Best-effort
- D. Self-generated

Answer: C

NO.12 Which of the following self-generated traffic applications is considered "protocol" traffic, as opposed to "management" traffic?

- A. Telnet
- B. BGP
- C. SNMP
- D. ICMP

Answer: B

NO.13 Which of the following is a forwarding class type that is intended for network control traffic on a Nokia 7750 SR?

- A. Assured
- B. High-1
- C. Expedited
- D. Best Effort

Answer: B

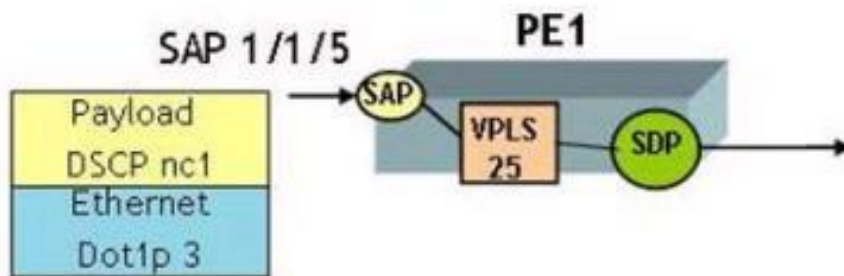
NO.14 Click the exhibit button below. Given the SAP-ingress policy, which of the following statements are FALSE?
(Choose three)

```
*A:sr cdev3r1>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
      exit
      entry 15 create
        match protocol udp
        exit
        action fc "h2"
      exit
      entry 20 create
        match protocol icmp
        exit
        action fc "h2"
      exit
    exit
  default-fc "af"
exit
-----
```

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

Answer: A,B,D

NO.15 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
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. L2

B. H1

C. BE

D. H2

E. EF

F. NC

Answer: A

NO.16 On the Nokia 7750 SR, which of the following QoS-related policies can be configured on a SAP? (Choose three)

A. The SAP-egress policy

B. The slope-policy

C. The network-queue policy

D. The scheduler-policy

E. The SAP-ingress policy

Answer: A,D,E

NO.17 Which of the following about scheduling is TRUE?

A. HQoS schedulers provide a dynamic method of allocating scheduling resources to queues.

B. HQoS schedulers cannot be children of an egress port-scheduler.

C. A scheduler policy applied to multiple SAPs within the same service will result in a single hardware scheduler operating across all SAPs within the service.

D. HQoS scheduler policies can be applied to an MDA to schedule network ingress traffic.

Answer: C

NO.18 According to the SAP-ingress QoS policy shown, which of the following statements about processing of the packets by policers 3 and 4 is TRUE?

```
R1>config>qos>sap-ingress# info
-----
---- Output omitted ----
policer 3 create
  rate 10000 cir 4000
  mbs 40
  cbs 20
  high-prio-only 30
exit
policer 4 create
  rate 10000 cir 2000
  mbs 20
  cbs 5
  high-prio-only 70
exit
fc af create
  policer 3
exit
fc 12 create
  policer 4
exit
dscp "ef" fc "af"
dot1p 2 fc "af"
dot1p 4 fc "12" priority low
default-fc 11
default-priority low
exit
```

- A. Policer 3 starts discarding low-priority packets when its PIR bucket has at least 3000 tokens.
- B. Policer 4 forwards all its packets as out-of-profile.
- C. Policer 4 starts discarding low-priority packets when its PIR bucket has at least 3000 tokens.
- D. Policer 3 forwards packets as out-of-profile when its PIR bucket has 4000 tokens.

Answer: D