



**Exam Code:** 4A0-107

**Exam Name:** Alcatel-Lucent Quality of Service

**Vendor:** Alcatel-Lucent

**Version:** DEMO

## Part: A

1: True or False: A proper end-to-end QoS solution is becoming more of an issue even as more bandwidth is being made available to today's bandwidth-intensive, interactive multimedia applications.

- A.True
- B.False

**Correct Answers: A**

2: Which of the following are examples of metrics for QoS?

- A.delay, jitter, packet loss
- B.latency, FIFO, WRED
- C.signal degradation, attenuation, line loss
- D.SNR, radial CODEC inversion, latency
- E.Inverse Queue Depletion, delay, packet loss

**Correct Answers: A**

3: Which of the following are Ethernet SAP encapsulation types? Choose all that apply.

- A.Null
- B.Dot1Q
- C.Q-in-Q
- D.IPCP
- E.BCP-Null
- F.BCPdot1.q
- G.Frame Relay

**Correct Answers: A B C**

4: Which of the following are not considered a differentiator/classifier of customer traffic at layer 2 or 3 of the OSI model? Choose all that apply.

- A.DSCP
- B.802.1p
- C.IP Precedence
- D.TCP/UDP Port numbers
- E.HTML version

**Correct Answers: D E**

5: Which of the following statements are true regarding the DSCP bits? Choose 3 answers.

- A.The precedence level bits define 4 Assured Forwarding Classes
- B.The three least significant bits of the DSCP bits specify the drop probability
- C.The 8 bits of the TOS field are used for DSCP
- D.To convert DSCP to IP Precedence the three most significant bits are matched
- E.DSCP provides for 64 precedence levels with 3 drop probabilities

**Correct Answers: A B D**

6: Pick from the following list the 3 major components of the QoS features on the Alcatel-Lucent 7750 SR.

- A.virtual inflow classification
- B.real-time QoS shaping
- C.traffic classification
- D.802.1q p-bit rate-limiting
- E.buffer memory management
- F.traffic scheduling

**Correct Answers: C E F**

7: The IOM is responsible for which of the tasks listed below? Choose 3 answers.

- A.local processing of critical control plane functions
- B.IPSec VPN hardware accelerated encryption
- C.queuing, scheduling, and buffer management
- D.IP/MPLS/MAC forwarding lookup
- E.Layer 2 / Layer 3 encapsulation

**Correct Answers: C D E**

8: Which of the following statement is true with regards to Q-in-Q on the Alcatel-Lucent 7750 SR?

- A.Q-in-Q defines a mechanism for encapsulating queued DSCP traffic at the provider edge
- B.Q-in-Q is a new protocol that supercedes 802.1p priority-bit mapping in a QoS-aware network
- C.The use of either the inner or outer 802.1p bits in the 802.1q frames for QoS classification can be configured on the Alcatel-Lucent 7750 SR
- D.Q-in-Q is a protocol which re-encapsulates trunked p-bits in an outer label that is mapped into the EXP bits in an MPLS backbone
- E.none of the above

**Correct Answers: C**

9: Which of the following are not categories of forwarding classes on the Alcatel-Lucent 7750 SR? Choose 3 answers.

- A.Real-time
- B.Assured
- C.Non-conforming
- D.High Priority
- E.Expedited

**Correct Answers: A C E**

10: Which of the following are Trusted boundaries by default? Choose 2 answers.

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

**Correct Answers: C D**

11: True or False. There is a default network policy applied to all router interfaces?

- A.True
- B.False

**Correct Answers: A**

12: Which of the following are characteristics of DSCP. Choose 3 answers?

- A.Part of the layer 3 header
- B.A 6-bit field of which the first 3 bits indicate the IP Precedence bits
- C.Specifies 8 different priorities
- D.Specifies 3 precedence levels
- E.Part of the layer 2 header
- F.Specifies 64 different per hop behaviors

**Correct Answers: A B F**

13: Which of the following QoS policies does not have a default policy?

- A.scheduler policies
- B.service ingress
- C.service egress
- D.network queue
- E.network
- F.slope

**Correct Answers: A**

14: Which of the following is not one of the ingress matching criteria for a network policy?

Choose all that apply.

- A.TCP port numbers
- B.LSP EXP
- C.DSCP
- D.Source and destination IP addresses
- E.Dot1P priority

**Correct Answers: A D**

15: On the Alcatel-Lucent 7x50 SR, on what port is classification performed?

- A.Access ports
- B.Network ports
- C.Access ports with q-in-q encapsulation
- D.Both access and network ports
- E.Neither access or network ports

**Correct Answers: D**

16: Which of the following are possible criteria for classifying packets at the network port ingress on the Alcatel-Lucent 7x50 SR? Choose all that apply.

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

**Correct Answers: A C D**

17: 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.AF
- B.EF
- C.H2
- D.H1
- E.BE

**Correct Answers: B**

18: Fill in the blank. On the Alcatel-Lucent 7750 SR, sap-ingress policies can consist of up to \_\_\_ queues per forwarding class for multipoint traffic.

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

**Correct Answers: C**

19: Which of the following statements are false regarding buffer pool allocation? Choose 2.

- 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 ports on the same MDA receives its own buffer pool

**Correct Answers: C E**

20: Fill in the blanks with the correct entity. 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 Answers: C**