Vendor: Alcatel-Lucent

Exam Code: 4A0-109

Exam Name: Alcatel-Lucent Triple Play Services

Version: Demo

QUESTION 1
How many queues per subscriber can be allocated using a high-speed Media Dependent Adapter (HS-MDA)?

A. 64 ingress or egress queues
B. 16 ingress and 16 egress queues
C. 8 ingress and 8 egress queues
D. 8 ingress or egress queues

Correct Answer: C

QUESTION 2
What is the ultimate goal of Triple Play services?

A. To bring Ethernet technologies to the subscriber's home.
B. To assist providers in managing their IP networks.
C. To move HSI, voice, and video onto a converged IP core.
D. To accelerate the deployment of MPLS in the provider network.

Correct Answer: C

QUESTION 3
Which of the following elements is part of the access network?

A. IP phone
B. RG
C. BSAN
D. BNG

Correct Answer: C

QUESTION 4
Which of the following is correct in a VLAN per all services for all subscribers?

A. One port per BSAN
B. One port per service
C. One SAP per service
D. One SAP per BSAN

Correct Answer: D

QUESTION 5
In numbered WAN scenarios, which protocol will configure the IPv4 address of an RG?

A. DHCP
B. LCP
C. IPCP
D. ARP

Correct Answer: C

QUESTION 6
Which network element will add the PPPoE Relay Tag?

A. RG

B. BSAN
C. BSA
D. BNG

Correct Answer: B

QUESTION 7
A subscriber-host gets an IP address from the RG using SLAAC and all prefixes are centrally managed.

How does the RG receive the correct information?

A. The RG receives the prefix from the BNG using SLAAC.
B. The RG receives the prefix information encapsulated in a DHCPv4 message.
C. The RG receives the IA_PD in a DHCPv6 message.
D. The RG receives the IA_NA in a DHCPv6 message.

Correct Answer: C

QUESTION 8
In an FTTU deployment, what device in the home network is used to connect to the provider access network?

A. DSL modem
B. DSLAM
C. ONT
D. P-OLT

Correct Answer: C

QUESTION 9
What information is typically present in the option 82 attribute of the DHCP Discover message relayed from an Alcatel-Lucent BSAN?

A. Agent user ID
B. Agent circuit ID
C. Agent vendor ID
D. Agent BSAN ID

Correct Answer: B

QUESTION 10
Assume a subscriber only requested one multicast group. Which feature should be enabled on the BSAN to ensure the subscriber only receives data from the multicast group requested?

A. IGMP proxy
B. IGMP snooping
C. MC replicator
D. IGMP querier

Correct Answer: B

QUESTION 11
The DHCP clients' formal request to the DHCP server for an offered IP address is contained in which DHCP message type?

A. DHCP Discover
B. DHCP Request
C. DHC Pack

D. DHCP Offer

Correct Answer: B

QUESTION 12
What is the RG's access connection towards the service provider in FTTN?

A. Copper DSL technology
B. GPON technology
C. BPON technology
D. EPON technology

Correct Answer: A

QUESTION 13
Which message is sent from the DHCPv6 server to the lightweight DHCPv6 relay agent?

A. Advertise
B. Confirm
C. Relay-Forward
D. Relay-Reply

Correct Answer: D

QUESTION 14
An Alcatel-Lucent 7750 SR has a subscriber interface configured with multiple subnets. How is the subnet that is used for subscriber IP address allocation determined?

A. The DHCP server assigns an IP address based on the gi-address configured on the RG.
B. The DHCP server assigns an IP address based on the gi-address configured in the subscriber interface context on the BSA.
C. The DHCP server assigns an IP address based on the gi-address configured in the group interface context.
D. The DHCP server assigns an IP address based on the option 82 information inserted by the BSA.

Correct Answer: C

QUESTION 15
What do IPv6CP Req/Ack messages use to identify the peer?

A. Circuit ID
B. Remote ID
C. Interface ID
D. SAPID

Correct Answer: C

QUESTION 16
In a Routed CO architecture, which of the following is FALSE?

A. Subscriber sessions are created on the BNG.
B. IPv4 is supported for IPoE and PPPoE.
C. IPv6 is supported only for IPoE.
D. PPPoE is supported on IES and VPRN.

Correct Answer: C

QUESTION 17

How can the number of subscribers on a SAP be limited when using ESM?

A. Use the lease-populate command to secure a finite number of hosts.
B. Use the host-limit command.
C. Use the multi-sub-sap command.
D. Use the antispoofip-mac command.

Correct Answer: C

QUESTION 18
The pppoe-access-method in the authentication policy context has been set to " none " . What will happen during the authentication of a PPPoE subscriber-host?

A. It will be denied access by the authentication policy.
B. It will be allowed access by the authentication policy.
C. It will be forwarded to the radius server for authentication.
D. It will be forwarded to the local-user database for authentication.

Correct Answer: D

QUESTION 19
To support dual stack subscribers, what is the minimum version of the IOM card on the Alcatel- Lucent 7750 SR?

A. IOM-10g
B. IOM-20g-b
C. IOM2-20g
D. IOM3-xp

Correct Answer: D

QUESTION 20
Which of the following about Change of Authorization (CoA) is FALSE ?

A. CoA can change the SLA-profile.
B. CoA can change the IP address of the hosts, if dynamically allocated.
C. CoA can change the subscriber's ADSL line set up.
D. CoA can create a new subscriber-host.

Correct Answer: C

QUESTION 21
What is the main difference between Enhanced Subscriber Management and Basic Subscriber Management?

A. The method of authenticating the subscriber
B. The method of allocating IPv6 addresses
C. Support for the SAP per-subscriber model
D. Dynamic allocation of resources

Correct Answer: D

QUESTION 22
To allocate IPv6 address to IPoE and PPPoE sessions, which of the following is the correct configuration?

```
○ A.   subscriber-interface "sub-1" create
              group-interface "grp-1" create
                 ipv6
                    dhcp6
                       client-applications dhcp ppp


○ B.   subscriber-interface "sub-1" create
              group-interface "grp-1" create
                 ipv6
                    client-applications dhcp ppp


○ C.   subscriber-interface "sub-1" create
              group-interface "grp-1" create
                 ipv6
                    dhcp6
                       relay
                          client-applications dhcp ppp


○ D.   subscriber-interface "sub-1" create
              group-interface "grp-1" create
                 ipv6
                    client-applications ipoe pppoe
```

A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: C

QUESTION 23
What parameters are needed for subscriber-host instantiation?

A. SAP, IP address, MAC address, subscriber ID, SLA profile, and subscriber profile
B. SAP, IP address, MAC address, SAP-ingress profile, and scheduler profile
C. SAP, IP address, MAC address, and subscriber ID
D. Port, IP address, MAC address, and subscriber ID

Correct Answer: A

QUESTION 24
In the case of PPPoE, the local-user-database can NOT be used for which of the following?

A. Authenticating clients
B. Defining a ppp-policy
C. Defining an SLA-profile
D. Setting an IPv6 address

Correct Answer: B

QUESTION 25

Which of the following is NOT part of an unique subscriber instance?

A. Subscriber ID
B. Subscriber MAC address
C. Sub-profile
D. SLA-profile

Correct Answer: B

QUESTION 26
When using a RADIUS server to obtain subscriber parameters and a DHCP mechanism to obtain IP addresses, which DHCP message triggers a RADIUS request?

A. DHCPAck
B. DHCP Offer
C. DHCP Discover
D. DHCP Request
E. DHCP Renew

Correct Answer: C

QUESTION 27
For which entity does the command session-limit specify the number of PPPoE hosts allowed?

A. VPRN service
B. Subscriber interface
C. Group interface
D. SAP

Correct Answer: C

QUESTION 28
What are the three parameters that can be used to map the right scheduler policy and QoS policy to a subscriber under Enhanced Subscriber Management?

A. Subscriber identity. QoS policy defined on a SAP, accounting policy defined on a SAP
B. Subscriber identity, subscriber profile, security policy for a subscriber
C. Subscriber identity, subscriber profile, SLA profile
D. Subscriber identity, subscriber identity policy, SLA profile

Correct Answer: C

QUESTION 29
Which of the following is NOT a characteristic of a capture SAP?

A. It is always configured in a VPLS.
B. It is required on each physical port where the M-SAP is to reside.
C. It requires manual configuration.
D. It is required to be in the same service instance as the M-SAP.

Correct Answer: D

QUESTION 30
Upon successful authentication from the RADIUS server in a Bridged CO environment, which of the following is not used for the M-SAP creation?

A. The M-SAP ID returned by the RADIUS.

B. The M-SAP policy returned by the RADIUS.
C. The port and VLAN that the DHCP Discover message arrived on.
D. The M-SAP service ID returned by RADIUS.

Correct Answer: A

QUESTION 31
Where the following command can be configured trigger-packet dhcp dhcp6 pppoe?

A. In the BSAN, under the VLAN setup.
B. In the BSA, under a SAP of the VPLS.
C. In the BNG, under a managed SAP of the IES.
D. In the BNG, under a capture SAP of the VPRN.

Correct Answer: B

QUESTION 32
A capture SAP is configured in VPLS 1 on a dot1q port; one managed SAP (M-SAP) has been instantiated successfully in VPLS 2 with a VLAN-ID of 2. But now, non-trigger traffic reaches the capture SAP on VLAN 100, what will happen to this traffic?

A. It will be forwarded to the default service.
B. It will be dropped by the VPLS 1.
C. It will be dropped by the service that already has the M-SAP created.
D. It will be forwarded to the CPU (SFM/CPM card) for further investigation.

Correct Answer: B

QUESTION 33
Which of the following is a trigger to setup an L2TP Tunnel?

A. LCP phase
B. CHAP phase
C. IPCP phase
D. PPPoE discovery phase

Correct Answer: B

QUESTION 34
In the case of a wholesale/retail model with a subscriber session terminated at the retail BNG.which of the following is true?

A. PPPoE is used on the RG.
B. IPoE issued on the RG.
C. L2TP is used on the RG.
D. ATMoADSL is used on the RG.

Correct Answer: A

QUESTION 35
In an L2TP wholesale/retail architecture, where is the ESM applied?

A. In the subscriber specific ESM by wholesale BNG and the retail service provider's ESM by wholesale BNG.
B. In the subscriber specific ESM by retail BNG and the retail service provider's ESM by retail BNG.
C. In the subscriber specific ESM by wholesale BNG and the retail service provider's ESM by retail BNG.
D. In the subscriber specific ESM by retail BNG and the retail service provider's ESM by wholesale BNG.

Correct Answer: D

QUESTION 36
The wholesale service provider can retrieve the retail service VPRN ID for an incoming request from which of the following?

A. DHCP ACK with option 82
B. PPPoE PADI
C. LUDB
D. DHCP server

Correct Answer: C

QUESTION 37
In an IP-VPN wholesale/retail model, where is the ESM SLA profile applied?

A. In the wholesale service of the retail BNG.
B. In the retail service of the retail BNG.
C. In the wholesale service of the wholesale BNG.
D. It cannot be applied in an IP-VPN wholesale/retail model.

Correct Answer: C

QUESTION 38
Which of the following is correct about L2TP?

A. Use TCP for the control messages and UDP for the data packets.
B. L2TP encapsulates any Layer 2 protocol such as frame relay, ATM and PPP.
C. L2TP operates at Layer 2 and supports both IPv4 and IPv6.
D. L2TP operates at Layer 2 and only supports IPv4.

Correct Answer: C

QUESTION 39
In an IP-VPN wholesale/retail model, which of the following packets will trigger the radius or LUDB authentication?

A. ICMP
B. PPPoEv4
C. ARP
D. IPv6

Correct Answer: B

QUESTION 40
MCS is not required on a BNG for which redundancy mechanism?

A. MC-LAG
B. MC-ring
C. SRRP
D. VRRP

Correct Answer: D

QUESTION 41
There can be one SRRP master per which entity?

A. BNG
B. Group interface
C. Subscriber interface
D. IES interface

Correct Answer: B

QUESTION 42
Which information is used to detect if an entry in the MCS database needs to be reconciled after 2 peers experience a brief loss of communication?

A. SAP identifier
B. Sync-tag value
C. Sequence number
D. Timestamp

Correct Answer: C

QUESTION 43
What is the format of the VRRP virtual MAC address?

A. 00-00-5E-00-01-<VRID>
B. 01-00-5E-00-01-<VRID>
C. 5E-00-01-00-00-<VRID>
D. 5E-00-00-00-01-<VRID>

Correct Answer: A

QUESTION 44
Which of the following states is NOT an MCS synchronization state?

A. In-sync
B. Synchronizing
C. Out-of-sync
D. Sync-down

Correct Answer: C

QUESTION 45
What is the purpose of the SRRP message-path SAP?

A. It monitors the data path between the master and backup BNGs.
B. It synchronizes the subscriber database between the master and backup BNGs.
C. It provides a consistent QoS policy for downstream traffic across both BNGs.
D. It redirects downstream traffic from the backup to the master BNG.

Correct Answer: A

QUESTION 46
Which of the following is TRUE?

A. SRRP is a proprietary protocol used in a Bridged CO model.
B. VRRP is a proprietary protocol used in a Routed CO model.
C. SRRP is a standard protocol used in a Routed CO model,
D. VRRP is a standard protocol used in a Bridged CO model.

Correct Answer: D

QUESTION 47
Which VRRP policy event should be used to force a master switchover in case a given network prefix becomes unreachable?

A. Port-down
B. Host-unreachable
C. Lag-down
D. Route-unknown

Correct Answer: D

QUESTION 48
What happens when arp-reply-agent is enabled on a subscriber SAP?

A. All ARP replies from the BNG are verified before being forwarded to the subscriber.
B. All ARP requests from the subscriber are answered by the arp-reply agent.
C. All ARP requests from the BNG to a subscriber are answered by the arp-reply agent.
D. All ARP replies from the subscribers are dropped to prevent theft of service.

Correct Answer: C

QUESTION 49
What is the purpose of the anti-spoofing filter?

A. Anti-virus protection
B. Prevent direct subscriber-to-subscriber communication
C. Filter upstream traffic
D. Prevent the use of fake IP addresses

Correct Answer: D

QUESTION 50
How can a TPS network protect itself from a subscriber running a rogue DHCP server?

A. All subscriber SAPs have anti-spoofing enabled.
B. All subscriber SAPs have DHCP snooping enabled.
C. All subscriber SAPs are members of a single RSHG.
D. All subscriber SAPs have arp-reply-agent enabled.

Correct Answer: C

QUESTION 51
Which IP packets are able to bypass the anti-spoofing filter?

A. ICMP packets
B. All network protocol packets (OSPF, BGP. LDP, etc.)
C. DHCP packets
D. IPSec-encrypted packets

Correct Answer: C

QUESTION 52
Click on the exhibit.

```
A:BSA>config>service# info
---------------------------------------------------
    vpls 10 customer 1 create
        mac-protect
            mac 93:33:00:00:BF:92
        exit
        sap 1/1/1:100 create
            restrict-unprotected-dst
        exit
        sap 1/1/1:101 create
            restrict-unprotected-dst
        exit
        spoke-sdp 9:10
        exit
        no shutdown
    exit
---------------------------------------------------
```

The L3 gateway has the MAC address 93:33:00:00:BF:92. What happens to incoming frames on SAP 1/1/1:100?

A. Incoming frames with the L3 gateway MAC address as a destination will be dropped.
B. All incoming frames will be forced to the L3 gateway.
C. Incoming frames with a source MAC address of 93:33:00:00:BF:92 will be dropped.
D. Only incoming frames destined to the L3 gateway will be allowed on SAP 1 /1 /1:100.

Correct Answer: D

QUESTION 53
Which feature can be used to identify a subscriber that paid for extra services?

A. 802.1X authentication
B. IGMP filters
C. DHCP option 82
D. MAC pinning

Correct Answer: C

QUESTION 54
What is the difference between Split Horizon Groups (SHG) and Residential Split Horizon Groups (RSHG)?

A. The spanning tree protocol is not supported on RSHG members.
B. An RSHG does not support spoke-SDP members.
C. Multicast or broadcast downstream traffic is not supported on RSHG members.
D. Anti-spoofing must be enabled on an RSHG.

Correct Answer: A

QUESTION 55
Which feature is required in a subscriber VPLS in order to enable local proxy ARP on the associated BNG IES interface?

A. Anti-spoofing
B. Residential Split Horizon Groups

C. MAC-pinning
D. DHCP snooping
E. IGMP snooping

Correct Answer: B

QUESTION 56
Which file format is used to store the subscriber accounting file on an Alcatel-Lucent 7750 SR?

A. TXT
B. PDF
C. RTF
D. XML

Correct Answer: D

QUESTION 57
Which of the following describes the port mode required to support ESM over MPLS on an Alcatel-Lucent 7750 SR?

A. The port mode must be "access".
B. The port mode must be "network" .
C. The port mode must be "hybrid" .
D. The port mode must be "pw-port" .

Correct Answer: C

QUESTION 58
For application assurance, which field can NOT be used to identify an application?

A. Server IP address
B. HTTP user-agent
C. DSCP value
D. TCP port

Correct Answer: C

QUESTION 59
Which of the following methods encapsulates IPv6 packets into an IPv4 tunnel?

A. Dual-Stack Lite (DS-Lite)
B. Native I Pv4/IPv6 dual-stack
C. 6RD
D. Carrier-Grade NAT (CGN)

Correct Answer: C

QUESTION 60
Where and in which direction is a virtual-port typically instantiated?

A. On the BNG, towards the Internet
B. On the BNG, towards the BSAN
C. On the BSAN, towards the BNG
D. On the BSAN, towards the RG

Correct Answer: B

QUESTION 61
Which of the following is NOT a characteristic of the Alcatel-Lucent Triple Play solution?

A. Always on and always available
B. Supports data, voice, and video simultaneously
C. High bandwidth
D. Low number of concurrent connections

Correct Answer: D

QUESTION 62
Which of the following were NOT roles of a traditional BNG?

A. Logical termination of PPP sessions
B. Authentication of subscribers using 802.1x
C. Default gateway to the Internet
D. Enforce QoS policies

Correct Answer: B

QUESTION 63
Which of the following is NOT part of the aggregation network?

A. BSA
B. BSAN
C. B-RAS
D. BNG

Correct Answer: B

QUESTION 64
In a numbered PPPoE WAN scenario, the RG sends which address assignment option to the DHCPv6 server in the Solicit message?

A. IA_NA only
B. IA_PDonly
C. Neither IA_NA and IA_PD
D. Both IA NA and IA PD

Correct Answer: D

QUESTION 65
Which of the following is NOT a function of the BSAN?

A. Tagging upstream traffic towards the aggregation network
B. DHCP relay/proxying and maintaining the lease-state table
C. Adding DHCP option 82
D. Switching VLAN tagged traffic towards the subscriber

Correct Answer: B

QUESTION 66
By default what does a DHCP client do when it receives multiple offers from DHCP servers?

A. It accepts the last offer received.
B. It accepts the first offer received.
C. It accepts the offer from the DHCP server marked master in the DHCP-offer messages.

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