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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 a 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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