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Exam : **4A0-M01**

Title : Alcatel-Lucent IP/MPLS Mobile Backhaul Transport

Version : Demo

1.When researching carrier-class Ethernet standards to support the mobile backhaul Ethernet transport, which standards body would you consult?
A. IEEE
B. MEF
C. ITU-T
D. NGMN
Answer: B

2.The IETF is know for which standardization effort.?
A. It develops recommendations for core network functionality, broadband service delivery and next generation services
B. It maintains Requests for Comment (RFC) that describe technical solutions to Internet challenges
C. It creates single, integrated network design guidelines to support mobile broadband services
D. It develops radio access services and systems for high capacity mobile networks
Answer: B

3.Click on the exhibit.

```
A:MLS2# show port 1/2/2.3.5.1.1

===============================================================================
TDM DS0 Chan Group
===============================================================================
Description        : DS0GRP
Interface          : 1/2/2.3.5.1.1
TimeSlots          : 1-24
Speed              : 64                      CRC                  : 32
Admin Status       : up                      Oper Status          : down
BER SF Link Down   : disabled
Last State Change  : 11/15/2011 13:37:42     Chan-Grp IfIndex     : 574687879

Configured mode    : access                  Encap Type           : atm
Admin MTU          : 1524                    Oper MTU             : 1524
Scramble           : true
Physical Link      : no                      Bundle Number        : none
Idle Cycle Flags   : n/a                     Load-balance-algo    : Default
Payload Fill Type  : n/a                     Payload Pattern      : N/A
Signal Fill Type   : n/a                     Signal Pattern       : N/A
Ing. Pool % Rate   : 100                     Egr. Pool % Rate     : 100
Egr. Sched. Pol    : N/A
===============================================================================
...output truncated
```

Given the following:
• On the OC-3 port, each provisioned channel group contains all available timeslots.
The command result illustrates which circuit status?
A. The E1 channel group is administratively turned down
B. The DS1 circuit physical link is operationally down
C. The IMA bundle has no operational member links
D. The associated Layer 3 interface is operationallydown
Answer: B

4.In the Alcatel-Lucent SROS, which command creates the OC-3 path's Administrative Unit (AU)-4 Virtual Container (VC) capacity?
A. configure port 3/1/2 sonet-sdh path au-4

B. configure port 3/1/2 sonet-sdh path sts3
C. configure port 3/1/2 sonet-sdh path tug-3
D. configure port 3/1/2 sonet-sdh path vc-4
Answer: B

5.Click on the exhibit.

```
A:MLS1# show port 1/2/1.1.2.2.1

===============================================================================
TDM DS0 Chan Group
===============================================================================
Description        : DS0GRP
Interface          : 1/2/1.1.2.2.1
TimeSlots          : 2-32
Speed              : 64                      CRC                  : 16
Admin Status       : up                      Oper Status          : up
BER SF Link Down   : disabled
Last State Change  : 11/15/2011 12:41:41     Chan-Grp IfIndex     : 574652640

Configured mode    : access                  Encap Type           : ipcp
Admin MTU          : 1502                    Oper MTU             : 1502
Scramble           : false
Physical Link      : yes                     Bundle Number        : none
Idle Cycle Flags   : flags                   Load-balance-algo    : Default
Payload Fill Type  : n/a                     Payload Pattern      : N/A
Signal Fill Type   : n/a                     Signal Pattern       : N/A
Ing. Pool % Rate   : 100                     Egr. Pool % Rate     : 100
Egr. Sched. Pol    : N/A
===============================================================================
... output truncated
```

On the OC-3 port, each provisioned channel group contains all available timeslots
The command result illustrates which OC-3 port characteristic?
A. On STS1-1,the second VT1.5 in the second VTG is set for IPCP encapsulation
B. On STS1-1,the second DS1 channel group in the second VTG isoperationallyup
C. On STS1-1, the second E1 channel group in the second TUG-2 is operationally up
D. On STS1-1, the second VT2 in the second TUG-2 is set for IPCP encapsulation
Answer: C

6.Which statement correctly describes the Point-to-Point (PPP) Multilink Protocol (MP) negotiation process?
A. At least one link must complete Link Control Protocol (LCP) negotiations before the bundle can initialize
B. The endpoints indicate their desire to implement MP in the link Network Control Protocol (NCP) phase
C. The bundle must complete LCP negotiations before it can enter the NCP negotiation phase
D. Internet Protocol-Control Protocol (IPCP) negotiations must succeed for the bundle links to initialize
Answer: A

7.In the Alcatel-Lucent SROS, which payload type set in a SDH-framed OC-12 port creates individual E1 containers?
A. Virtual Tributary (VT) 1.5
B. VT2
C. Virtual Container (VC)-11

D. VC-12
Answer: B

8.Click on the exhibit.

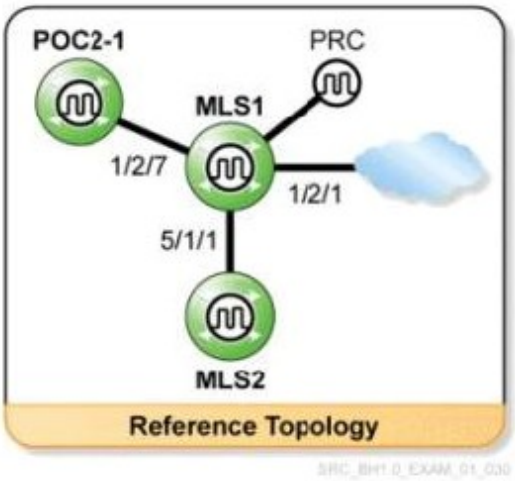
```
A:MLS2# show multilink-bundle

===============================================================================
Bundle Summary
===============================================================================
Bundle                  Type    Admin     Oper      Port      Min    Total/
Id                              State     State     State     Links  Active Links
-------------------------------------------------------------------------------
bundle-ima-1/2.5        ima-grp Up        Down      Link Up   2      4/2
-------------------------------------------------------------------------------
Bundles : 1
===============================================================================
```

The command result indicates which condition on the Inverse Multiplexing over ATM (IMA) bundle?
A. The number of active links has dropped belowthe minimum threshold
B. The associated Layer 3 interface is administratively down
C. The remote IMA bundle is administrativelydown
D. The parent OC-3 is operationally down
Answer: C

9.Which timing technique can deliver time of day and phase synchronization information to the base station without concern for Packet Delay Variation (PDV)?
A. Building Integrated Timing Supply (BITS)
B. Global Positioning System (GPS)
C. Adaptive Clock Recovery (ACR)
D. IEEE 1588v2/Precision Time Protocol (PTP)
Answer: B

10.Which messages, periodically sent between an IEEE 1588v2/Precision Time Protocol (PTP) v2 master and slave, serve as hellos to help the slave choose the best available master?
A. Announce
B. Announce_grant
C. Sync
D. Delay_response
Answer: A

11.Click on the exhibit.




```
ref-order ref1 bits ref2
ref1
        source-port 1/2/1
        no shutdown
    exit
    ref2
        source-port 5/1/1
        no shutdown
        ql-override prs
    exit
    bits
        interface-type ds1 sf
        ql-override prs
    input
            no shutdown
        exit
    exit
    revert
```

Consider the topology and MLS1 configuration shown, and given the following conditions:

-MLS1 delivers the PRC traceable clock to the network

-Reference 1 receives Quality Level (QL) - ST3

-Reference 2 receives QL - DUS

-BITS sets QL-STU

Which quality level will MLS1 deliver to POC2-1 on its Synchronous Ethernet (SyncE) port 1/2/7?

A. QL-EEC2

B. QL-PRS

C. QL-ST3

D. QL-STU

Answer: C

12.Click on the exhibit.

```
A:CSA2# show system ptp clock 1 ptp-port 1 peer 1

===============================================================================
Peer-1
===============================================================================
IP Address            : 192.0.2.0        static/dynamic       : static
Current Master        : TRUE
Description           : MLS1
Clock Id              : 0ca402fffe96b401 Port Number          : 1
GM Clock Id           : 0ca402fffe96b401 GM Clock Class       : 80
GM Clock Accuracy     : unknown(254)     GM Clock Variance    : not computed
GM Clock Priority1    : 128              GM Clock Priority2   : 128
Step Type             : one-step
Last Rx Anno Msg      : 11/22/2011 10:28:05

-------------------------------------------------------------------------------
Unicast Info
-------------------------------------------------------------------------------
Dir Type        Rate       Dur Result         Time                   Remain
-------------------------------------------------------------------------------
Rx  Anno        1 pkt/2 s 300 granted         11/22/2011 10:25:56    172
    Sync        64 pkts/s 300 granted         11/22/2011 10:26:02    178
    DelayResp   64 pkts/s 300 granted         11/22/2011 10:26:02    178
-------------------------------------------------------------------------------
===============================================================================
... output truncated
```

Given the show command results shown:

With what IEEE 1588v2/Precision Time Protocol (PTP) v2 message did the slave node set the Unicast

message rates used by the master?
A. Announce granted
B. Announce request
C. Sync granted
D. Sync request
Answer: B

13.Which statement best describes adaptive timing techniques?
A. Adaptive timing calculates the time of day from time stamped packets
B. Adaptive timing calculates the time of day from the arriving packet rate
C. Adaptive timing only supports frequency synchronization
D. Adaptive timing only operates on point-to-point links
Answer: A

14.If an IEEE 1588v2/Precision Time Protocol (PTP) v2 slave times out announce messages with the master, to which state does the slave port transition to choose another potential master?
A. Initial
B. Listening
C. Passive
D. Un-calibrated
Answer: B

15.Click on the exhibit.

```
-----------------------------------------------
            ref-order external ref1 ref2
            ref1
                source-ptp-clock 1
                no shutdown
            exit
            ref2
                source-port 1/2/7
                no shutdown
                ql-override prc
            exit
            external
                input-interface
                    impedance high-impedance
                    no shutdown
                exit
            exit
-----------------------------------------------
```

Given the configuration shown and the following conditions:
* The external reference is offline
* Reference 1 receives Quality Level (QL) - EEC1

* Reference 2 receives QL - SSU-A

Which quality level will the SAR router advertise to its Synchronous Ethernet (SyncE) peers?

A. QL-DNU

B. QL-EEC1

C. QL-SSU-A

D. QL-PRC

E. QL-UNC

Answer: B

16.Click on the exhibit.

```
A:CSA1# show system ptp clock 1

===============================================================================
IEEE1588 PTP Clock Information
===============================================================================
-------------------------------------------------------------------------------
Local Clock
-------------------------------------------------------------------------------
Clock Type           : ordinary,slave   Admin State          : up
Source I/F           : ptp_source       Clock MDA            : 1/2
PTP Profile          : ituTelecomFreq   Dynamic Peers        : not allowed
Clock ID             : 48f7f1fffe0663d6 Clock Class          : 255
Clock Accuracy       : unknown(254)     Clock Variance       : not computed
Clock Priority1      : 128              Clock Priority2      : 128
Domain               : 4                Two-Step             : unknown
-------------------------------------------------------------------------------
Operational Data
-------------------------------------------------------------------------------
Parent Clock ID      : 0ca402fffe96b401 Parent Port Number   : 1
GM Clock Id          : 0ca402fffe96b401 GM Clock Class       : 80
GM Clock Accuracy    : unknown(254)     GM Clock Variance    : not computed
GM Clock Priority1   : 128              GM Clock Priority2   : 128
-------------------------------------------------------------------------------
Slave Port Index     : 1                Slave Port State     : slave
Slave Peer Index     : 1                Slave Peer IP        : 192.0.2.0
Forward Weight       : 96               Reverse Weight       : 4
```

Given the show command results shown:

Which IEEE 1588v2/Precision Time Protocol (PTP) v2 parent clock value does the slave first consider when choosing its master?

A. GM Clock Priority1

B. GM Clock ID

C. GM Clock Priority2

D. GM Clock Class

Answer: D

17.An SROS router obtains its timing exclusively from its BITS input port. The router sets Quality Level (QL) SONET Traceability Unknown (STU) on this Superframe (SF) framed DS1 BITS reference.

What must you configure on this master router to pass the best clock quality level to the downstream Synchronous Ethernet (SyncE) slave nodes while maintaining traceability to the DS1 source?

A. Enable "ql-override prs" on the BITS reference

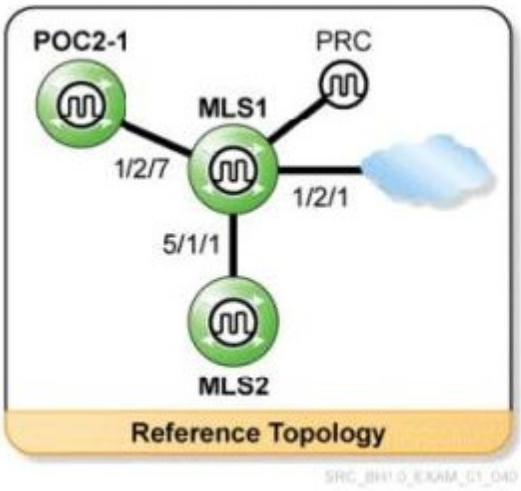
B. Enable "ql-override prs" on the master's SyncE ports

C. Enable "ql-selection prs" on the BITS reference

D. Set the master router to choose its source by quality level

Answer: A

18.Click on the exhibit.




```
ref-order bits ref1 ref2
ref1
        source-port 1/2/1
        no shutdown
    exit
    ref2
        source-port 5/1/1
        no shutdown
        ql-override prc
    exit
    bits
        interface-type ds1 sf
        ql-override prc
    input
            no shutdown
        exit
    exit
    revert
```

Consider the topology and MLS1 configuration shown, and given the following conditions:
* MLS1 delivers the PRC traceable clock to the network
* Reference 1 receives Quality Level (QL) - EEC1
* Reference 2 receives QL - SSU-A
* BITS sets QL-SSU-B
Which quality level will MLS1 deliver to POC2-1 on its Synchronous Ethernet (SyncE) port 1/2/7?
A. QL-EEC1
B. QL-PRC
C. QL-SSU-A
D. QL-STU
Answer: B

19.Which synchronization technique supports time of day and phase synchronization?
A. IEEE 1588 v2/Precision Time Protocol (PTP)v2
B. Adaptive Clock Recovery (ACR)
C. Time Division Multiplexing (TDM) line timing
D. Synchronization Ethernet (SyncE)/Synchronization Status Message (SSM)
Answer: A

20.Which is a characteristic of the IEEE 802.3 Slow Protocol?
A. There are a maximum of 10 frames transmitted per second
B. There are a maximum of 20 slow protocol subtypes per interface
C. The maximum slow protocol frame size is 64 bytes
D. The slow protocol header carries the clock quality level
Answer: A