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QUESTION 1

ATM carries IP and PPP information with ATM cells. What ATM adaptation Layer is used when an ATM cell carries IP packets and PPP frames?

A. AAU2

B. AAL3

C. AAL4

D. AAL5

Correct Answer: D

QUESTION 2

What is the function of the AJB bits on DS1 using Extended Super Frame (ESF)?

A. It is used for signaling on-hook and off-hook status.

B. It carries CRC information for error detection.

C. It is used for a control and performance information.

D. It is used for a frame\'s synchronization and alignment.

Correct Answer: A

DS1 frame synchronization[edit source | edit]

See also: Synchronization in telecommunications

Frame synchronization is necessary to identify the timeslots within each 24-channel frame. Synchronization takes place by allocating a framing, or 193rd, bit. This results in 8 kbit/s of framing data, for each DS1.

Because this 8-kbit/s channel is used by the transmitting equipment as overhead, only 1.536 Mbit/s is actually passed on to the user. Two types of framing schemes are Super Frame (SF) and Extended Super Frame (ESF). A Super Frame

consists of twelve consecutive 193-bit frames, whereas an Extended Super Frame consists of twenty-four consecutive 193-bit frames of data. Due to the unique bit sequences exchanged, the framing schemes are not compatible with each

other. These two types of framing (SF, and ESF) use their 8 kbit/s framing channel in different ways.

QUESTION 3

Select the three valid LMI extension:

A. Multicasting

B. Global addressing

C. Forward-explicit congestion notification (FECN)

D. Virtual circuit status messages.

E. Backward-explicit congestion notification (BECN)

Correct Answer: ABD

Optional LMI Extensions:

The LMI specification also defines several optional extensions:

*

 Global addressing convention

*

 Multicast capability

*

 A simple flow control mechanism

*

 Ability for the network to communicate a PVC\'s CIR to the subscriber in a Status message

*

 A new message type that allows the network to announce PVC status changes without prompting from the subscriber
Implementors may build any, all, or none of these features into their networks.

QUESTION 4

SONET\'s three layers arE. (Choose three.)

A. DS1

B. Frame

C. Path

D. Line

E. Section

Correct Answer: CDE

SONET Layers SONET divides the overhead and transport functions into three layers: Section Line

Path

These three layers are associated with both the physical equipment that segments the network and the bytes of information that flows through the network elements.

QUESTION 5

Select the statement that best describes "The cure for Amplification Principle" in the Internet domain, as explained in RFC 3429 (Internet Architectural Guidelines)

A. None of the above

B. Amplification is prevented if local changes have only a local effect as opposed to system in which local change have a global effect

C. Amplification is prevented if global changes have only a local effect as opposed to systems in which global changes have a local effect

D. Internet domain does not suffer from "The Amplification Principle" as BGP takes care of misbehaving advertisers

Correct Answer: B

In the Internet domain, it has been shown that increased interconnectivity results in more complex and often slower BGP routing convergence [AHUJA]. A related result is that a small amount of inter-connectivity causes the output of a routing mesh to be significantly more complex than its input [GRIFFIN]. An important method for reducing amplification is ensure that local changes have only local effect (this is as opposed to systems in which local changes have global effect). Finally, ATM provides an excellent example of an amplification effect: if you lose one cell, you destroy the entire packet (and it gets worse, as in the absence of mechanisms such as Early Packet Discard [ROMANOV], you will continue to carry the already damaged packet).

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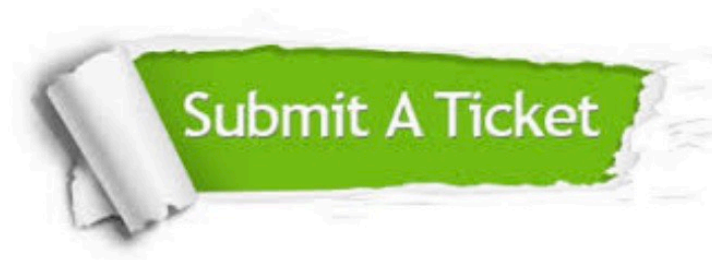Multi-Platform capabilities - Windows, Mac, Android, iPhone, iPod, iPad, Kindle

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