

A resposta correta é: A connectionless unreliable service.

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Assume a data transmission of 8 ksymbol/s. If we aim to transmit 32 kbit/s using a phase modulation, we must use a number of phases equal to

- a. 32000.
- b. 16.
- oc. 4.
- od. 8000.

A resposta correta é: 16.

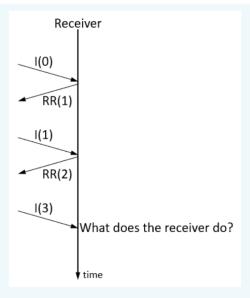
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Assume a transmission system using **bit stuffing**. The FLAG is 0x7E (represented in binary by 011111110 or 01^60). ESC is the escape character. During the transmission of the frame information field, the following substitution is made:

- igcup a. $FLAG
 ightarrow ESC \, ESC$
- $\ \, 0 \ \, \text{b.} \ \, 1^6 \rightarrow 1^60$
- $\ \ \,$ c. $\ \, 1^5 \rightarrow 1^50$
- \circ d. $FLAG
 ightarrow ESC\,FLAG$

A resposta correta é: $1^5
ightarrow 1^50$

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Consider the ARQ Go-Back-N mechanism using a window W=3. The receiver's behaviour is described in a notation in which ?I(0).!RR(1) represents the reception (?) of the I(0) message followed (.) by the transmission (!) of the RR(1) message. After the occurrence of the events ?I(0).!RR(1).?I(1).!RR(2).?I(3), the receiver

- a. Discards the received I(3) message and transmits RR(2).
- b. Discards the received I(3) message and transmits REJ(2).
- oc. Stores the received I(3) message and sends REJ(2) to the sender.
- O d. Stores the received I(3) message but does not transmit REJ nor RR.

A resposta correta é: Discards the received I(3) message and transmits REJ(2).

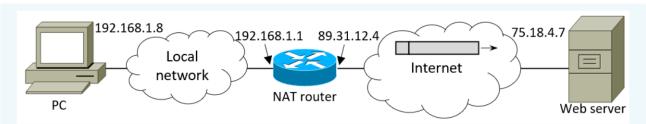
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When a frame is received by an Ethernet Switch and the forwarding table does not contain an entry for this frame, the Switch

- a. Forwards the frame based on its source MAC address.
- b. Forwards the frame to all ports except the incoming port.
- o c. Invokes an Address Resolution Protocol (ARP) procedure.
- O d. Forwards the frame based on its destination IP address.

A resposta correta é: Forwards the frame to all ports except the incoming port.

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As illustrated in the figure, a PC on a local network behind a NAT router sent a packet to a web server on the Internet. The addresses in the IP header of the packet after it crossed the NAT router are

- o a. 192.168.1.8 (source) and 75.18.4.7 (destination).
- o b. 89.31.12.4 (source) and 75.18.4.7 (destination).
- o c. 192.168.1.8 (source) and 89.31.12.4 (destination).
- o d. 192.168.1.1 (source) and 75.18.4.7 (destination).

A resposta correta é: 89.31.12.4 (source) and 75.18.4.7 (destination).

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At a certain instant, the sender of a TCP connection which had a congestion window of 8000 and a slow start threshold of 20000 and changed both values to 4000. This happened because

- o a. a timeout occurred.
- o b. the application wrote 4000 bytes to send.
- o c. it received a third duplicate ACK for the same sequence number.
- O d. the receiving application read 4000 bytes.

A resposta correta é: it received a third duplicate ACK for the same sequence number.

