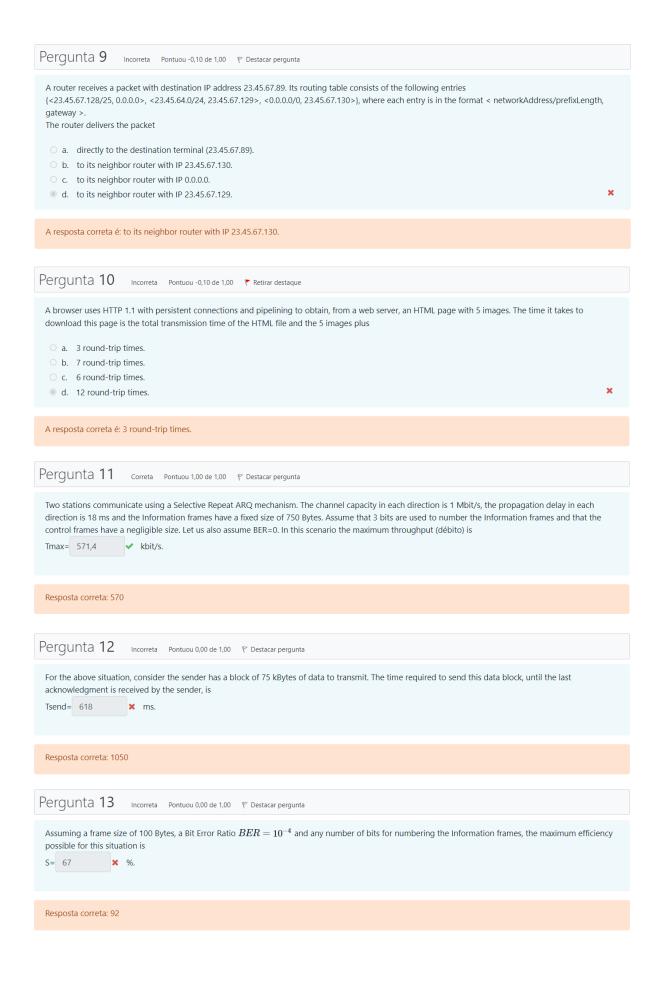


Pergunta 5 Correta Pontuou 1,00 de 1,00 P Destacar pergunta In the MAC protocol CSMA/CD (carrier sensing, collision detection), when a transmitting station detects a collision, this station a. Aborts the frame transmission and retransmits the frame after waiting a random number of timeslots. O b. Continues to transmit the frame until the end and retransmits the frame in the next timeslot. $\,\,\bigcirc\,$ c. $\,\,$ Aborts the frame transmission and retransmits the frame in the next timeslot. O d. Continues to transmit the frame until the end and retransmits the frame after waiting a random number of timeslots. A resposta correta é: Aborts the frame transmission and retransmits the frame after waiting a random number of timeslots. Pergunta 6 Correta Pontuou 1,00 de 1,00 P Destacar pergunta The Identification (ID) field of the IP header is used to a. specify the virtual circuit (VC) that the IP packet belongs to. O b. select the appropriate entry in the NAT table. o c. perform fragmentation and reassembly of IP datagrams. O d. select the socket at the receiver where data in the packet should be delivered. A resposta correta é: perform fragmentation and reassembly of IP datagrams. Pergunta 7 Incorreta Pontuou -0,10 de 1,00 Retirar destaque At a given instant, when the congestion window of a TCP connection is 1000 segments, a timeout occurs, indicating the loss of a packet. The sender reacts a. setting the congestion window to 500 segments and the slow start threshold to 750 segments. \circ b. setting the congestion window to 1 segment and the slow start threshold to 500 segments. oc. setting the congestion window to 500 segments and the slow start threshold to 1000 segments. \bigcirc d. setting both the congestion window and the slow start threshold to 500 segments. A resposta correta é: setting the congestion window to 1 segment and the slow start threshold to 500 segments. Pergunta 8 Incorreta Pontuou -0,10 de 1,00 ₹ Destacar pergunta The flow control function of TCP is based on O b. the receiver informing the sender of how much free space for new data it has in the receiving buffer. $\, \odot \,$ c. the receiver informing the sender of the maximum bit rate at which it may send data. O d. the use of a flag in the TCP header for the receiver to tell the sender to temporarily stop sending data. A resposta correta é: the receiver informing the sender of how much free space for new data it has in the receiving buffer.



Pergunta 14 Incorreta Pontuou 0,00 de 1,00 P Destacar pergunta

An output port of a router is modeled by a M/M/1 queue. In average, 120 pac/s are transmitted through this port. The packets have an average length of 1500 Bytes. The link associated with the port has an utilization of 80 %. In these conditions, the average packet delay is

Resposta correta: 33

Pergunta 15

For the same output port capacity and the same transmission rate of 120 pac/s, if the average packet length becomes 500 Bytes, the time required to transmit a packet (not including the waiting time in the queue) becomes

$$T_s = 8.3$$
 ms.

Resposta correta: 2

Pergunta 16

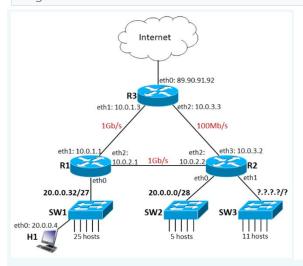
Incorreta Pontuou 0,00 de 1,00 🎤 Destacar pergunta

For the situation of Question 14, if all the packets have the same constant length of 1500 Bytes, the average waiting time of a packet in the queue is

$$T_w = 33.3$$
 x ms.

Resposta correta: 13

Pergunta 17 Correta Pontuou 1,00 de 1,00 ▼ Destacar pergunta



The figure shows a diagram of the network of a company, containing three routers (R1, R2, R3) and three ethernet switches (SW1, SW2, SW3). The company bought the public IP address block 20.0.0.0/25 for assigning addresses to the LANs corresponding to each switch, which is a work in progress. What network address and prefix length must be assigned to the LAN of switch SW3? Use the format a.b.c.d/n, or "impossible" if no feasible assignment can support the 11 hosts.

Resposta: 20.0.0.16/28

Resposta correta: 20.0.0.16/28

