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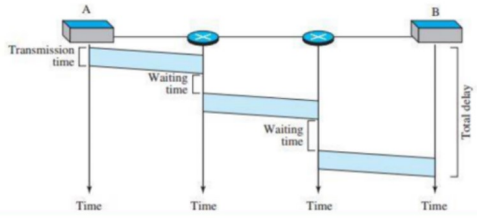
Question: 5. Identify the type of switching network in the below picture a…

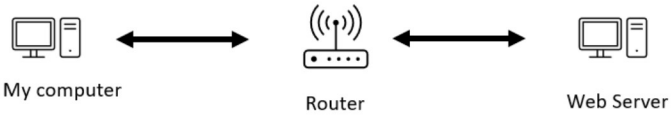
Ans them all

5. Identify the type of switching network in the below picture and calculate the total delay if Transmission time = **BD= 90** miliseconds, propagation time = **GH/10** =2.2miliseconds and Waiting time = **AC/20=0.7** miliseconds for each switch. Ignore processing delay.



[2+3]

6. Draw the data link layer frame showing all the Source and Destination values in the headers of different layers during the following steps of the process of viewing a secure web page using TCP/IP model: [5]



- Computer ->Router 1
- Router 1 -> Web server
- Web server ->Router 1
- Router 1 -> Computer

Assume **CDEF=4089** as the port opened by the browser in the computer, default HTTPS port for the web server, and use randomly generated IP and MAC addresses (check out this link for IP and this link for MAC). You can assume the computer and server are in the same network.

Show transcribed image text

Expert Answer

Anonymous answered this
276 answers

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Given: transmission delay = BD = 90 msec
propagation delay = GH/10 = 2.2 msec
waiting time = AC/20 = 0.7 msec

transmission delay between A to S_1
= 90 msec
transmission delay between S_1 to S_2
= 90 msec
transmission delay between S_2 to B
= 90 msec
total transmission delay = (90+90+90) msec
= 270 msec

propagation delay between A to S_1
= 2.2 msec X10
propagation delay between S_1 to S_2
= 2.2 msec X10
propagation delay between S_2 to B
= 2.2 msec X10

total propagation delay = (2.2+2.2+2.2) X10 msec
= 66 msec

waiting time At S_1 = 0.7 msec X20
waiting time At S_2 = 0.7 msec X20
total waiting time = (0.7+0.7) X20 msec
= 1.4 X20 = 28 msec

So, the total delay = Total TD + Total PD + Total WT
= 270 + 66 + 28 = 364 ms