1. Consider an end system X that wants to send a 3MB file to another end system Y in a packet-switched network. Each package is 32KiB. There are two routers between X and Y using store and forward transmission with a transmission rate of 10Mbps. Propagation delay and processing delay can be ignored. How much time does it take for the first package to arrive completly at end system Y?
    a. 105 ms
    b. 210 ms
    c. 315 ms
    d. 420 ms

2. Consider the same situation as in the previous question. How much time does it take until the last bit is received in end system Y?
    a. 131 s
    b. 11 s
    c. 1 s
    d. 13110 ms

3. Ignoring propagation and processing delays, sending one packet of L bits from source to destination over a path with N routers and each link of rate R has a total delay of
    a. $\frac{L}{R}$
    b. $\frac{N}{R}$
    c. $N \times \frac{L}{R}$
    d. $(N+1) \times \frac{L}{R}$

4. What is the size of a MAC address?
    a. 48 bits
    b. 42 bits
    c. 36 bits
    d. 24 bits

5. In a Time Division Multiplexing link, if there are N sources of the same data rate, how many slots are there in a frame?
    a. N^2
    b. N
    c. $\frac{N}{2}$
    d. $N \times 2$