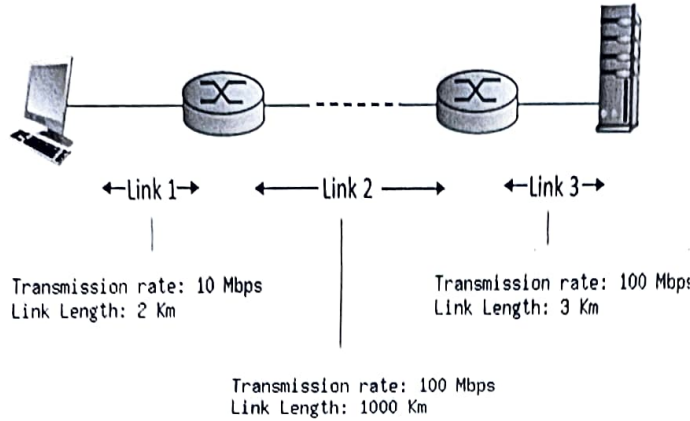


are in Km. Assume a packet length of 10000 bits. Give your answer in milliseconds.



b) Differentiate between Circuit switching and datagram packet switching. (Minimum 6 points)

4

4. A generator polynomial $x^5+x^4+x^2+1$ is given. Encode the data bit sequence 1010001101 using the generator polynomial and construct the code-word on the transmitter side. Also, evaluate the code at the receiver end and prove that there is no error

10

5. A four-bit message, 1101 is transmitted through a network with even parity. Now, according to Hamming code policy, examine the following:

4

a) The code-word of the transmitter side.
b) If the receiver has received an error code where 5th bit is flipped then how the error is detected and corrected in the receiver side.

6