SOLUTION QUIZ-01 BSE-6A

QUESTION-01

1) A
2) A
3) B

TRUE/FALSE

i.   False
ii.   True

QUESTION-02

Link 1 transmission delay = L/R = 16000 bits / 1000 Mbps = 0.016000 msec.
Link 1 propagation delay = d/s = 3 Km / 3*10**8 m/sec = 0.010000 msec.
Link 2 transmission delay = L/R = 16000 bits / 100 Mbps = 0.160000 msec.
Link 2 propagation delay = d/s = 500 Km / 3*10**8 m/sec = 1.666667 msec.
Link 3 transmission delay = L/R = 16000 bits / 10 Mbps = 1.600000 msec.
Link 3 propagation delay = d/s = 2 Km / 3*10**8 m/sec = 0.006667 msec.
Thus, the total end-to-end delay is the sum of these six delays: 3.459333 msecs.

Throughput is 10Mbps. (Throughput is the minimum of all the transmission rates that occur along the path from client to server).