Solution Quiz#1(5J)

MCQ's

1. b
2. c
3. d

T/F

1. F
2. F

Q2.

Transmission rate of server = Rs = 16 Mbps = $16 * 10^6$ bps

Transmission rate of access link = Rc = 4 Mbps = $4 * 10^6$ bps

File size = L = 200 Mega bits = $200 * 10^6$ bits

Transmission rate of bottleneck link (i.e., Rc) will be used for the purpose of delay calculation because

min (Rs , Rc) is Rc.

Time required to transfer the file =

L/ R = L / Rc = $200 * 10^6$ / $4 * 10^6$ = 50 seconds

Q3.

(a) Transmission Delay

(b) Propagation delay = d/s = $1500 * 1000$ / 2.5×10^8 = 6 ms (The question only asks for propagation delay.)