SOLUTION QUIZ-01 BCS-6A

QUESTION-01

MCQs

1) A
2) A
3) C

TRUE/FALSE

1. False
2. True

QUESTION-02

(a) Transmission Delay = Size of Transfer / Link Bandwidth
= $(500*8) / (10*10^6) = 4 \times 10^{-4}$ secs

(b) **i.** *Ignore propagation, queuing, and processing delays*
First Packet from Source Host to First Switch:
transmission Delay = $(250 \times 8)/(10 \times 10^6) = 2 \times 10^{-4}$ secs
Time at which 1st packet is received at the destination host = $2 \times 10^{-4} \times 2 = 4 \times 10^{-4}$ secs
After (2×10^{-4}) secs, 2nd Packet is Received at destination= $(4 \times 10^{-4}) + (2 \times 10^{-4}) = 6 \times 10^{-4}$ secs

ii. Throughput = min{A-B, B-C } = min{10mbps, 2mbps} = **2mbps**