7.3.5. Q5 : DoS

Q : (a) packets of 2K bytes (1K = 1024)

packets num

100 Mbs

(b) 150 Mbs

(c) explain ↑

Solution (a) ① The packet size:

2 kbytes = 2 x 1024 x 8 = 16382 bits

② On a 100 megabit per second (Mbps) link

$\frac{100,000,000}{16384}$ = 610.3516 packets per second

(b) ① On a 150 Mbps link

$\frac{150,000,000}{16384}$ = 915.5273 packets per second.

(c) ① As can be seen, the faster the link a greater number of packets are required to launch a successful attack.

② This is because higher speed offers large bandwidth and thus to fill that bandwidth one must send more packets to launch a successful DOS attack.