WORKSHEET -3

1. B -> 2

Data should be transmitted at the rate of 500 mbps transmit time = 2 propogation time.

=> 10000/ (500 x1000 000) <= 2* length /200000

=> Length = 2 km (mass)

S(B) 2km.

2. 255.255.255.254

A's IP address	10	105	1	01110001
Subnet	255	255	255	11100000
O/p network 1	10	105	1	01100000
B's IP address	10	105	1	01011011
Subnet	255	255	255	11100000
o/p network 2	10	105	1	01000000

o/p network 1 = 10.105.1.196

O/p network 2 = 10.105.1.64.

3. d) 128.8.129.3 and 128.8.161.55

hence the given mask 255.255.31.0 is a class B network.

4. A) 2.046

Subnetting a class B network address

mask = 255.255.248.0

Binary = 11111000.0000000

host Subnet = 2046.

5. C) 16

Total 16 packet are sent the following

for a, sequence of event since go-back-nearly control strategy is ever after a sent again.