1. B->2

Data Should be transmitted at the vate of 500 mbps transmit time =>= 2 * length | 200000. \Rightarrow leadol(500 × 1000000000) $\langle = 2*$ length. \Rightarrow length = 2 km (mass) \Rightarrow S(B) 2 km.

2. 255, 255.254

A's IP address 10 1 01110001 10 5 Subnet 255 255 · disort 255 11100000 Ofp notwork 10 105 01100000 subnot 255 255 255 1110000 0/p network 105 10 0100000

0/P network 1 = 10.105.1.196

0/p network 2 = 10.105-1.64

0/p network 1 and 2 bolong different network.

3. (d) 128.8.129.9 and 128.8.161.35

here the given Subnet mark 255.255.31.0 & or class B network.

4. (A) 2.046

Submotting a dan B network address

Mark = 255.255.248.0

Binary = 111 11 000. 0000 0000

heat Subnet = 2046.

5) (2) 16

Total 16 pocket are rent the following table for a sequence overt sine go.

back nearly control Standegy is ever after a rent again.

2000000 225 225 236 110000 2000000000

1 500 0000 1 501 01 01000000 1/2

1/9 network 2 = 10.105.1.191

of notice is and a belong disposed network.