Problem 7

i) class B

ii) 255.255.0.0

iii) 255.255.255.224

iv) 2048

v) 32

vi) 30

vii) 11

Problem 15

i) class B

ii) 255.255.0.0

iii) 255.255.255.192

iv) 1024

v) 64

vi) 62

vii) 10

Problem 11

i) Class B   8000
             135.70.0.0

ii) 255.255.240.0

iii) 255.255.255.224

iv) 8

v) 8,192

vi) 8,190

vii) 13   8 bits

viii) 135.70.0.48 to 135.70.0.0 0000 0000 0000
  135.70.0.55   (0) 0000
           (1) 0001
ix) 135.70.0.56   (2) 0010
           (3) 0011
x) 135.70.0.31   (4) 0100
           (5) 0101
xi) 135.70.0.41 to   (6) 0111
  135.70.0.46   (7) 1000

Practical Subnetting 4

Address class: Class B

Custom subnet mask: 255.255.255.240

Minimum number of subnets need: 5

Extra subnets Require for 10% growth: 4

Total number of subnet needed: 9

number of host addresses in largest subnet group: 225

number of addresses needed for 2% growth in the largest subnet 228

Total needed: 553

IP Address range for new york   135.126.0.0   0000
135.126.0.255 to 135.126.15.255   0000
                                                    0001
IP Address range for washington D.C.   0010
135.126.16.255 to 135.126.31.255   0011
                                                    0100

IP address range for dallas
135.126.32.0 to 135.126.47.207)   135.126.0.0   to   135.126.15.
                                   135.126.16.0 to 135.126.31.255

IP Address range Router A to B   135.126.32.0   to 135.126.47.255
135.126.48.0 to 135.26.63.255 135.126.48.0 to 135.126.61.255
                                   135.126.64.0 to 135.126.78.25

IP Address range Router A to C
135.126.64.0 to 135.126.79.255.

i) Practical Subnetting 6
   Class A

ii)   255.240.0.0

iii) 7

iv) 8   7.x.a

v) # 9

vi) 10.0.0.0 to 10.15.255.255

vii) 10.16.0.0 to 10.31.255.255

10.0.0.0	0 0 0 0 0 0 0 0
10.0.0.0000	
10.15.0.000	10.15.255.255
10.16.0.0	10.31.255.255
10.32.0.0	10.47.255.255
10.48.0.0	10.63.255.255
10.64.0.0	10.79.255.255
10.80.0.0	10.95.255.255
10.96.0.0	10.111.255.255

viii) 10.32.0.0 to 10.47.255.255

ix) 10.48.0.0 to 10.63.255.255

x) 10.64.0.0 to 10.79.255.255

xi) 10.80.0.0 to 10.95.255.255

xii) 10.96.0.0 to 10.111.255.255