Name: M. Khuzaima Hassan
Rollno: DT-22302

LAB-02

16 hosts

2 hosts

2 hosts

24 hosts

2 hosts

2 hosts

2 hosts

3 hosts

100 hosts
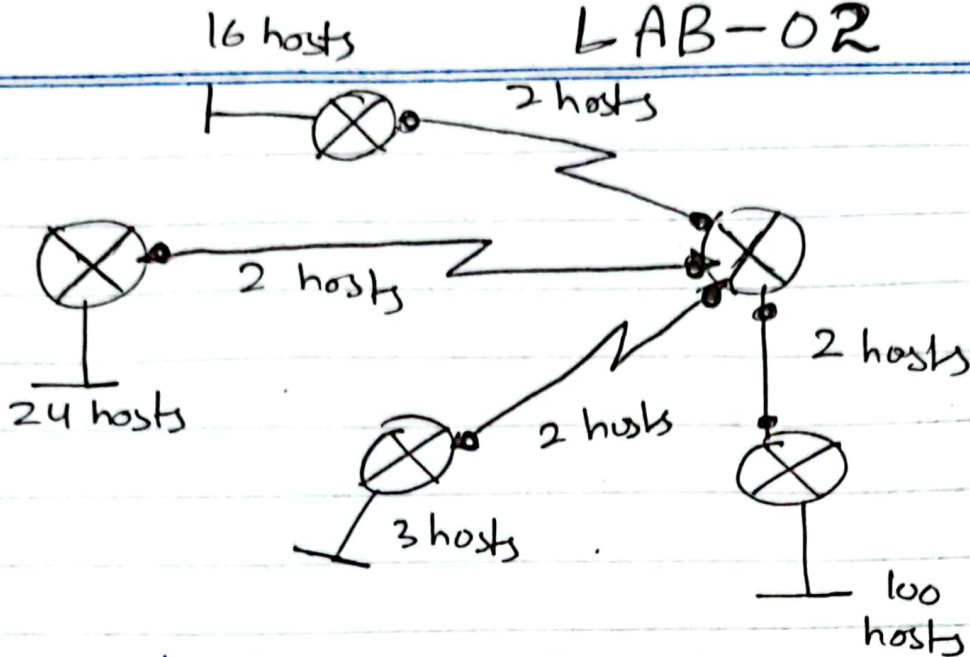
Available subnet mask: 24.23.5.0/24

	Required Hosts	Needed IPs	Subnet mask
1)	100	$2^7 = 128$	/25 (255.255.255.128)
2)	24	$2^5 = 32$	/27 (255.255.255.224)
3)	16	$2^5 = 32$	/27 (255.255.255.224)
4)	3	$2^3 = 8$	/29 (255.255.255.248)
5)	2	$2^2 = 4$	/30 (255.255.255.252)
6)	2	$2^2 = 4$	/30 (255.255.255.252)
7)	2	$2^2 = 4$	/30 (255.255.255.252)
8)	2	$2^2 = 4$	/30 (255.255.255.252)

1) 100 Hosts (/25 (255.255.255.128))

   24.23.5.0   N.ID   } 128
   24.23.5.127 B.ID

2) 24 Hosts (/27 (255.255.255.224))

   24.23.5.128 N.ID   } 32
   24.23.5.159 B.ID

CamScanner

3. 16 Hosts (/27 (255.255.255.224)

     24.23.5.160 (N.ID) $\Big\}$ 32
     24.23.5.191   B.ID

4. 3 Hosts (/29 (255.255.255.248))

     24.23.5.192   N.ID $\Big\}$ 8
     24.23.5.199   B.ID

5. 2 Hosts (/30 (255.255.255.252))

N.ID   24.23.5.200 $\Big\}$ 4
B.ID   24.23.5.203

6. 2 Hosts (/30 (255.255.255.252))

     24.23.5.204   N.ID $\Big\}$ 4
     24.23.5.207   B.ID

7. 2 Hosts (/30 (255.255.255.252))

     24.23.5.208   N.ID $\Big\}$ 4
     24.23.5.211   B.ID

8. 2 Hosts (/30 (255.255.255.252))

     24.23.5.212   N.ID $\Big\}$ 4
     24.23.5.215   B.ID