Paractical	Assignment	10

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1.	Find detault subnet masks, network bits, host bits,
	host per subnet, no of subnets subnet number,
	Ist valid IP address, laste valid IP address and
	broad cast address
	1.) 8. J. 4. 5 / 16.
	- class A
	- Subnet mask: 255.0.00 255.255.0.0.
	- Netwoork bits: 16 HOST bits: 16
	- 40st Pen subner: 2 = 65 534 16-8
	- No. 06 subners within the chassful: 2 = 256
	- Subnet number: 8, J. O. O
	- Fisst usuble: 8.7.0.]
	- Last risuble: 8. 1. 255, 254
	- 13 soud cust endessess: 8, J. 255, 255
	1,00 - 64 - 64 - 64 - 64 - 64 - 64 - 64 -
	ii) 130. 4.102. 1/24
	class B
	Subnet mask: 255, 255, 255.0.
	Network bits: 24 Host bits: 8
	Host Pen subnet: 28-2-254
	No. of subnet within the classful: 2 = 256
	Subnet Number: 130, 4, 102.0
	Fisst usable: 130. 4. 102.1
	Last usable: 130. 4. 202. 254
	Broad cust address: 130.4.102.255

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	111) 330.4.302.3 122
	- class B
	- Subnet mask : 255, 255, 252.0
	11 C1 CC C3 11 C C C C C C C C C C C C C
	- HOST PES Subner: 2 16 - 2 - 7022
	- No. of Subnet within the clusstul: 2 = 64
	- 34bnet number: 130.4.100.0
	- Finst usuble: 130. 4. 100. 07
	- Last risable: 730.4.103.254
	- Broad cast: 130. 4. 103. 255
288	
	iv) 199. J. J. 100/27
	- class c
	- Subnet musk: 255. 265, 255. 224
	- Metwork bit: 27 Host bit:5
	- Host pen subnet: 25-2=30
	- No. 06 Subnet within the classful: 27.24
	- Subnet numben: 199.1.1.96
	- Finst usable: 199, 7.7.97
	- Lust risuble: 199, J. J. 126
	- Boodd east: 199, J.
	Continue to the desired and the second secon
	- 1 constitution and a constitution of the con

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2.	A host in a class C network has been assigned an JP J92 J68, J7.9. Find the number of addresses in the block, the first address, and the last address
	-Block: 24 = 255.255.255.6 -Number of addresses in the block: 2 = 2 - First address: 192.168.17.0 - First asuble address: 192.168.17.1 - Last address: 192.168.37.255 - Last asuble address: 192.168.37.254
3	An address in a black is given at 185.28. IF.9. Find the number of addresses
	in the block the bisst address and the lust address
	- Block: 36 = 255,255.0.0 - No. ot adds esses in the block: 2 = 6553
	- Finst address: 185.28.0.0 - Finst usuble address: 185.28.0.7 - Lust address: 185.28.255.255
	- Last usuble address. 785. 28. 255. 254

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4.	A block of addresses is granted to small organization one we know that one of the addresses is 205.3 205.76.37.39/28 what is the first address, number 10st address, number of address in
-	Subnet musk: 255, 255, 255, 240 Block Size: 232-28- J6 Founth-Octet block: J6=) coven 32-47 Finst address: 205, 16, 37, 32 Finst usuble: 205, 16, 37, 33 Lust address: 205, 16, 37, 47 Last asable: 205, 16, 37, 46 Number of address in the block: J6
	Subnet the IP addoess 216.27.5.0 into 30 hosts in each subnet. Find class, Default Mask, subnet mask, Bit Bossawed, New subnet mask, No. 06 Host & subnet Network Runges (Subnets).
	- Cluss C - detault Subnet mask: 255.255.25.0. - Bit bossowed: 3 - New Subnet mask: 255,255.224 - No. Of subnets: 23-8 - Host per subnet: 25-2=30

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- Netwook sunge	
J) 276.27.5.0 -216.27.5.30	
2) 276, 27, 5, 32 - 276, 27, 5, 63	
3) 216. 21.5. 64-216.21.5.95	
4)216.21.5.96-216.21.5.327	
5)216.21.5. 128 - 236.21.5. 259	
6)216.21.5.160-216.21.5.19	1
7) 216.21.5. 192 - 216.21.5. 223	3
8) 216.21.5. 224- 216.21.6 256	
6. Subnet the SP addsess 192.7	10.20.0. imo s2
hosts in each subner. Find	
Bit Bossowed, New Subnet must	
34bnet, Netwook Ranges (Subnets	
0.3	
-Class C	
- Host Bit Bassowed = 2	
- Network Subnet mask: 25	5. 256 256, 197
-No. of subnet: 22=4	
- Host pen sumet: 62	
- HOST PRO SUBJET : 02	
- Network sunges	
1) 192. 10. 20. 0 - 192. 10. 20. 63	3
2) 792 30.20.64 - 792.30.20.	
3) 192, 10, 20, 128 - 192, 10, 20	
4) 192.10.20.192-192.30.2	0.200

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7)	Determining the subnet musk too Device A and B:
	a) Device A: 172.16.17.30/20
	- ThindOctet block size: I6 Netwook: 172. 16. 16. 6 - Usuble: 172. 16. 16. 1 - 172. 16. 31. 254
	- () Sable: 172.16.16.1 - Broad cust: 172.16.31.255
	b) Device B: 172.16.37.3515120.
	- Same block 16-31 - Netwoork: 172.16.16.6
	- Network: 172.16.16.1 - 172.16.31.254 - Usuble: 172.16.31.255.
	- 151/cdc = 37.

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