Lab Practical-9

	study of IP Addressing and sub-netting
1,	Find default subnet marks, network bits, host bits,
	hosts per subnet, no of Subnets, subnet number,
	1st valid IP address, last valid IP address and broadcast
	address.
	- and and a series of the seri
	i) 8.1.4.5/16
	- Default Subnet mask : 255.0.0.0
	- Network bits : 16
	- Host bits : 16
	- Hosts per Subnet : 2 65534
1-	- No. of Subnets : 1
	- Subnet number 3 8.1.0.0/16
	- 1st valid IP address : 8,1.0,1
	- Last valid IP address : 8.1.255.254
	- Broad cast address : 8.1.255.255
_	ii) 130.4.102.1/24
100	- Default Subnet mask : 255,255,255,0
	- Network bits : 24
	- Host bits ? 8
	- Hosts per Subnet : 254
eron	- No. of Subnets : 1
in the same of the	- Subnet number : 130.4.102.0/24
ik i Silong	- 1st valid IP address: 130.4.102.1
Table 500	- Last valid IP address: 130.4.102.254
	- Broadcast address: 130.4.102.255
	The second of the second second of the second secon
	îiî) 199.1.1.1/24
	- Default Subnet mask : 255.255.255.0
39.2	- Network bits: 24
	- Host bits : 8
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	- Hosts per subnet 3 254	-
	- No. of Subnets : 1	
	- Subnet number: 199.1.1.0/24	
	-15t valid IP address ; 199.1.1.1	
	- Last valid IP address : 199.1.1.254	
	- Broadcast address : 199.1.1,255	
	a propagation of making which to the	
	iv) 130.4.102.1/22	
	- Default Subnet mask : 255, 255, 252,0	
	- Network bits : 22	14.0
	- Host bits: 10	
	- Hosts Per subnet : 1022	
	- No. of Subnets : 4	
	- Subnet number : 130,4,100,0/22	
* 43	- 1st valid IP address: 130.4.100.1	
- 1 And the second	- Last valid IP address: 130.4.103.254	
	- Broadcast address : 130.4.103.255	
	The second of th	
	v) 199.1.1.100 /27	
	- Default Subnet mask : 255.255.255.224	
	- Network bits: 27	
	- Host bits: 5	
	- Hosts per subnet : 30	
	- No. of subnets: 8	13
	- Subnet number: 199.1.1.96/27	<u> </u>
	- 1st valid IP address: 199.1.1,97	
	- Last valid IP address: 199.1.1.126	
4. 2. 2	- Broadcast address : 199.1.1.127	
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	2.	A host in a class c network has been assigned an IP address 192.168.17.9 . Find the number of addresses in the block, the first address, and the last address.
		- No. of addresses : 256 - First address : 192,168,17.0 - Last address : 192,168,17,255
- 6	3.	An address in a block is given as 185.28.17.9. Find the number of addresses in the block, the first address, and the last address.
		- No. of addresses : 65536 - First address : 185.28.0.0 - Last address : 185.28.255.255
	4.	A block of addresses is granted to a small organization. We know that one of the addresses is 205.16.37.39/28. What is the first address, last address, number of
		addresses in a block.
gar-		- No. of addresses: 16 - First address: 205.16.37.33
		- Last address : 205.16.37.46
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5.	Subnet the IP address 216.21.5.0 into 30 hosts in	
	each subnet. Find class. Default mask, Bit Borrowed,	
	New subnet mask, No. of Hosts & subnet, Network	
	Ranges (subnets).	
	- class : c	
	- Default subnet mask: 255,255,255.0	
·	- Bitss borrowed : 3	
i Lyr I	- New subnet mask : 255.255.255.224	
	- No. of Subnets & 8	
	-No. of hosts per subnet : 30	
The Section 1995	- Subnets : 32	
	5	
6.	Subnet the IP address 192.10.20.0 into 52 hosts in	
	each Subnet. Find class, Default mask, Bit Borrowed,	
	New Subnet mask, No. of Hosts & subnet, Network	4
X-1	Ranges (Subnets).	
	Andreas Territorias de la proposición de la composición del composición de la compos	3"
	- Class & C	
	-Default Subnet mask : 255.255.255.0	
	- Bits borrowed : 2	
	- New Subnet mask: 255.255.255.192	
	- No. of subnets : 4	Ti
	-No. of hosts per subnet : 62	
	- Subnets: 64	
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