05 February 2024 13:54	
(12	72.30.0.0 \16 Hosts -500 Cattent)
` /	Profix Subnets - 100 subnets, length
	length Prehx length
	2 Subnets - 1 bit 100 Subnets - 27 - (128)
	4 Subnets - 2 bit = 7 bits
	16+7=23
	142-30-00 (23) HOSE -
	32 bits => 23 bits Remaining bits:
	9 bits - 2-2 €570 € 500)
	9 bits - 2-2 €570 € 500) = (Prefix Length : 23)
Q2)	[172-21/201 (20) - What dog Subnet? does the
	(Notwork ID) host belong to
	[1] - 0110 111 64+32+15 96
	$\frac{111 - \frac{6110111}{4 bi5} \frac{64 + 32 + 15}{6} \frac{96}{11}$
	26 10 000 000 000 000 000 000 000 000 000
	Ad: Subnet: 172.21.96.0 0110 0000. 6000 0000
	0110(111) - (1)1111)
Q3)	192.168-91 Incomplete [172-2111 - 253]
94)	172-16-0-0/16 - 4 Subnets, - 2bits 12+
	and Subnet - 172-16.0.6 VIG 64+63=127
	- 172.16.00 000000 00000 0000
	61 (111 111) (255 10 11 11 11 128 10 11
	127
	(N:ID: 172-16-64-0 B:ID:172.16-127-25)
95)	Divide 172-30-6-0 NE network was Subnets of 1000
	host
	1000 hosts - 1024 Find the no. of - 10 bits (1000) Subnets
	- lo bits Tooo Subnets HHest bits (10 x> Host e>

Network bits = $32-16-10=6$ bits $=2=64$ submits
(=2=645.05)