Hssignment # 03 Question no 01:-[P = 200.25.16.0/19 Submet Mask = JP/200.25.16.0) to Binary

Sumbla Khan Sp20-BSSE : 0027 DCN (BNT)

						V			
,	Bit	128	64	32	16	8	4	2	
	200	1	1	0	0	1	0	0	0
	25	0	0	0	1		0	0	J
	16	0	0	0	1	0	0	0	0
	0	0	0	0	0	0	0	0	0
							7-4		

Frist IP: (IP & AND Mask.)

IP: 11001000.00011001.00010000.00000000

1 1001000.00011001.0000000.00000000

IP. 200.25.0.0

last IP: (IP OR Mask')

P. 11001000.00011001.00010000.0000000

10STP - 200. 25.31.255 Address = 31+255+1

20 or = 287

Question no 02: IP. 203.2.4.23 Subnet: 255. 255. 255. 224 Decimal to Binary (LP) Bit B Subnet (& Deimal to Binauy B Bit 2 55 IP = IP AND Subnet 11001011.00000010.00000100.00001 11111.111111111.111000 11001011.0000010.00000100.00100 2P = 203.2.4.0

Scanned with CamScanner

ast IP. IP OR Submet 1001011.00000010.00000100.00d0111 100 10 11.000000 10.00000100.00011111 last [P - 203.2.4.3] o7 IPs :- Nask + 1 No = 31 +1 = 32 Questión no 03. IP = 200.10.17.0/23 -> 3'Subanets Ly 24 PCs Submet-1: 60 PCS 6 30 PCs Network: 200.10.17.0/23 1st IP: 200.10-17.1/23 last IP: 200.10.17.58/23 Broddcast, 200-10-17.59/23 Submet 2:- 24 Pcs Network: 200.10.17.60/23 200.10.17.61/23 200.10.17.82/23 200.10.17.83/23

Submet. 3.30 Pcs Network -> 200-10.17.84/22 2st CP -> 200.10.17.85/22 last PP-> 200.10.17.112/22 Broadcast -> 200-10.17.113/22 Question no 04: SP = 172.16, 100.6/16 FON GOO PCS: $2^{\frac{n}{2}} - 2 > 500 = 9$ 512-2 > 500 510 > 500 Network -> 172.16.100.0/23 1st IP -> 172.16.100.1/23 last IP -> 172.16.101.284/23 Broad cast ->172.16.10 1.255/23 FON 400 usess . 27-2 > 400 ; n = 9 512-2 > 400 510 2 400 Network -> 172.16.102.00,123 172.16.102. 172.16.103. 254/23 172.16.103.255/23

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Por 100 usess:

27-2 \geq 100; \text{ n = 7}

128-2 \geq 100

Network -> 172.16.10%.10:/2%5

1st TP -> 172.16.10%.10:/2%5

last TP -> 172.16.10%.124/2%5

Broadcat-> 172.16.10%.725/2%5

for 10 users:

Network = 172.16.104.126/28 1st IP = 172.16.104.127/28 last CP = 172.16.104.136/28 Broadcast.172.16.104.137/28