CALCULO DE REDES

Telecomunicaciones

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RFC 1918

ips Disponibles
2^24 = 16.777.216
(2^24)-2 = 16.777.214

10.0.0.018

IP: 00001010 00000000 00000000 00000000

Mask: 255.0.0.0
11111111 00000000 00000000 00000000

ID
00001010 00000000 00000000 00000000

Wcard
00000000 11111111 11111111 11111111

Broadcast
00001010 11111111 11111111 11111111

1era IP utilizable
00001010 00000000 00000000 00000001

Ultima IP utilizable
00001010 11111111 11111111 11111110

IP: 10.0.0.0 /8
Mask: 255.0.0.0
ID: 10.0.0.0
Wcard: 0.255.255.255
Broadcast: 10.255.255.255

1era: 10.0.0.1
Ultima: 10.255.255.254

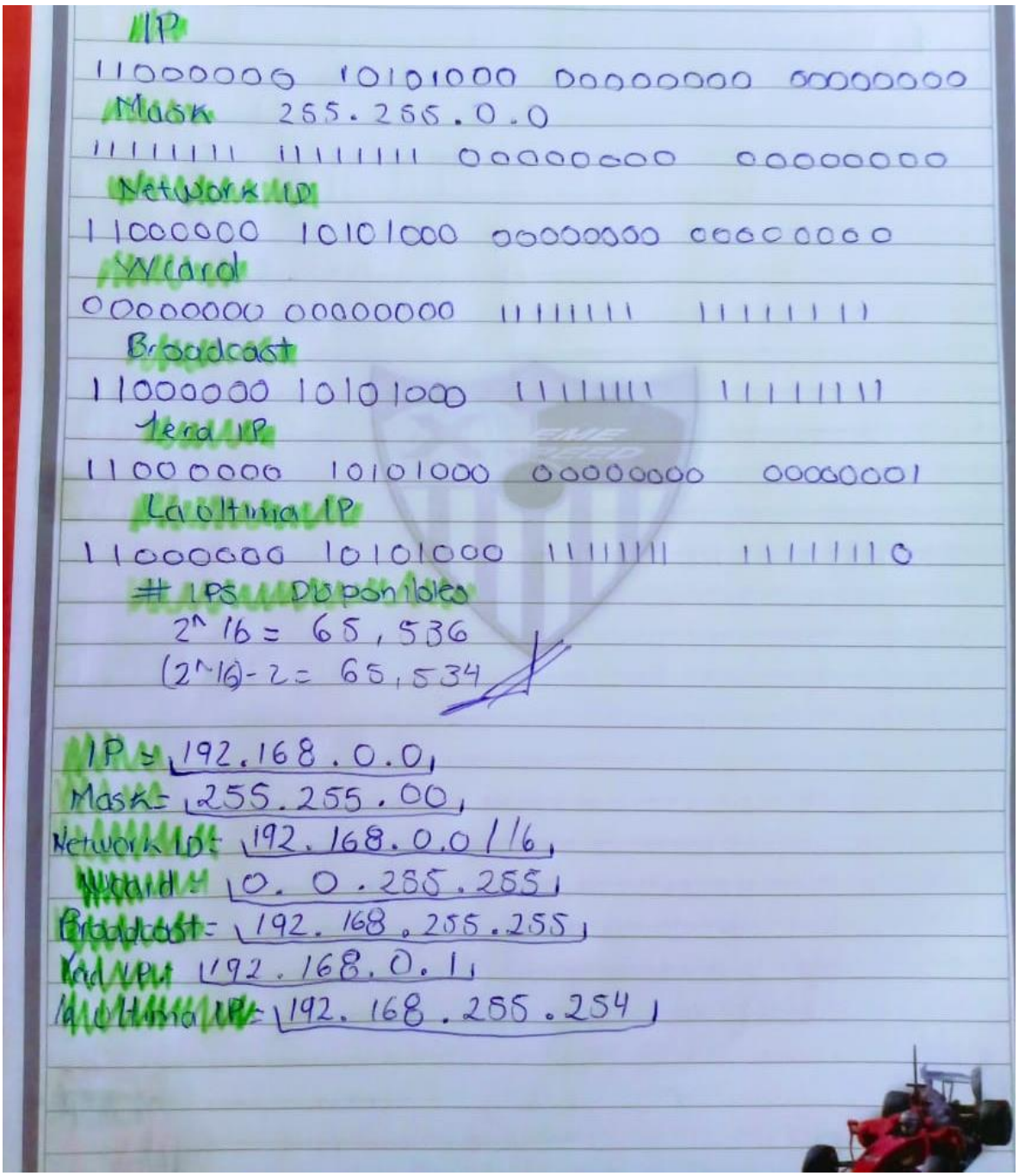
172.16.0.0 /12

IP:
10101100 00010000 00000000 00000000
Mask: 255. 240. 0. 0
11111111 11110000 00000000 00000000
Network ID
10101100 00010000 00000000 00000000
Wcard
00000000 00001111 11111111 11111111
Broadcast
10101100 00011111 11111111 11111111
1era IP
10101100 00010000 00000000 00000001
Ultima IP
10101100 00011111 11111111 11111110

IPS Disponibles
2^20 = 1,048 576
(2^20)-2 = 1.048 574

IP = 172.16.0.0,
Mask = 255.240.0.0,
Network ID: 172.16.0.0/12,
Wcard: 0.15.255.255,
Broadcast: 172.31.255.255,
1era IP: 172.16.0.1,
Ultima IP: 172.31.255.254.

192.168.0.0/16


IP
11000000 10101000 00000000 00000000
Mask 255.255.0.0
11111111 11111111 00000000 00000000
Network ID
11000000 10101000 00000000 00000000
Wcard
00000000 00000000 11111111 11111111
Broadcast
11000000 10101000 11111111 11111111
1era IP
11000000 10101000 00000000 00000001
La ultima IP
11000000 10101000 11111111 11111110
IPs Disponibles
2^16 = 65,536
(2^16)-2 = 65,534
IP = 192.168.0.0,
Mask = 255.255.00,
Network ID = 192.168.0.0/16,
Wcard = 0.0.255.255,
Broadcast = 192.168.255.255,
1era IP = 192.168.0.1,
La ultima IP = 192.168.255.254,