CS & IT





By- Ankit Doyla Sir





IPv4 Addressing

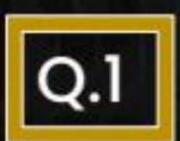
Lecture No-13



TOPICS TO BE COVERED

Subnetting Part-6





MSC

class-c

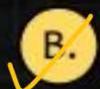


If Direct Broadcast Address is 200.200.200.31

Which of the following can be Subnet Mask?



255.255.255.192



255.255.255.224



255.255.255.248



255.255.255.128

MID HID

HID can be maximum 5 bit. (HID < 5 bit)



255.255.192

255.255.255. 11000000 NID SID HID



ADRyle
HID=6bit (HID=5bit) No
obtion A incorrect



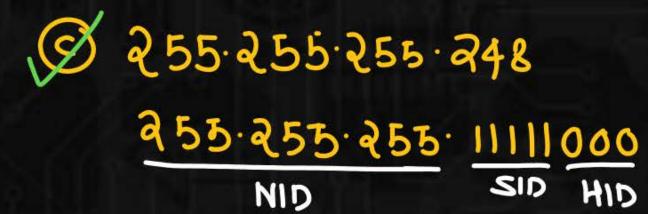
वे 55 व 55 वे 55 वे 34

355.355.355. 11100000 NID SID HID

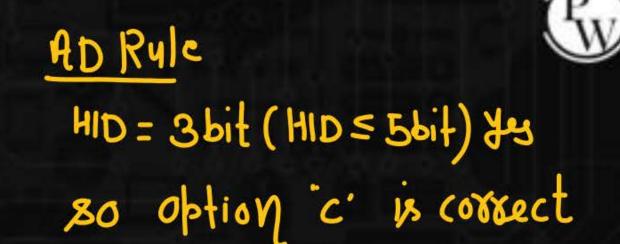


AD Pylc

HID=5 bit (HID < 5 bit) yes
so option 'B' is correct



06011 111 → 31





255.255.255.128 255.255.255.10000000 NID SID HID

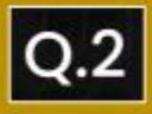
7TTTTT→ 92P

ADPyle

HID=7bit (HID=5bit) No

80 Option 'D' is

incorrect



If Direct Broadcast Address is 200.200.200.31



Which of the following can be Subnet Mask?



255.255.255.192



255.255.255.224



255.255.255.248



255.255.255.240

HID can be maximum 5 bit (HID≤5bit)



31:00011111









Q 255.255.455.11110000 HID

Mca

Q.3 What could be the Network Mask, if DBA of a Network is

168.17.7.255? : 168-17-0000111-11111111

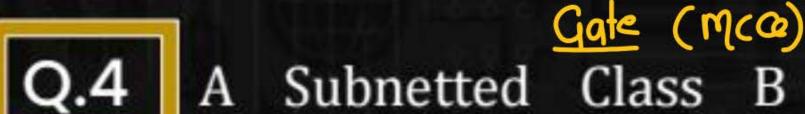
HID can be maximum 11 bit (HID = 11 bit)

HID = 11 위 (왕) 255.255.248.0 : 255.255. 11111000.00000000

255.255.252.0 : 255·255·11111100·0000000 HID= 10 bit (HID = 11 bit) yes

255.255.254.0: マララ・マララ・リリリリロ・00000000 HID = 9 bit (HID = 11 bit) yes

All the above



Subnetted Class B network has the following broadcast address: 144.16.95.255. Its subnet mask

is necessarily 255.255.224.0

साठ=1361€ (माठ≤1361€) अध्य is necessarily 255.255.240.0

255. 355. 355. 11110000. 0000000

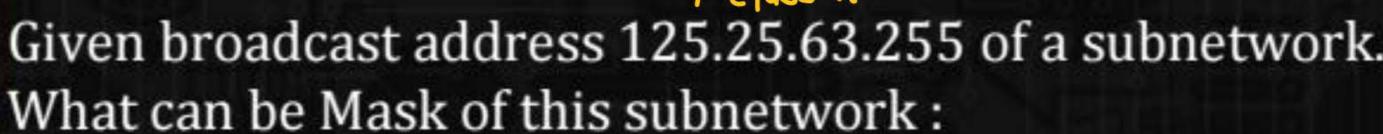
is necessarily 255.255.248.0

255.255.248.0

141.16.01011111111111

HID can be Maximum 13 Pif (HID < 13 PIF)

+ class-A



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HID= 15 bit (HID = 14 bit) No
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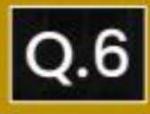


HID=14 bit (HID = 14 bit) yes

Both B and C

DBA: 185.00011001.001111111

HID can be maxim.
14 bit (HID < 14 bit)



If Direct Broadcast address is 200.200.200.31



Which of the following can be Subnet Mask?



255.255.255.192



255.255.255.224



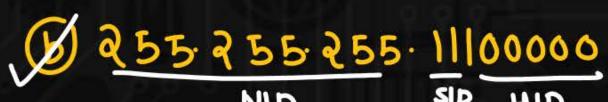
255.255.255.198



255.255.255.128

DBA: 206.206. 200.00011111

HID (and be maximum 5 bit (HID ≤ 5 bit)



HID = 5 bit (HID = 5 bit) te



HID < 5 Pif (NO)



255. 255. 255. 198 255. 255. 255. 11000110

HID = 4 PIF (HID = 2 PIF) Ans

31:00011111



Mse



 If subnet mask is 255.255.255.240, then which of the following can be Direct broadcast address



200.56.78.31[00044441]

SM: 255.255.255.11110000 NID HID



200.56.78.15[0000 1111]

HID = 461E



200.56.78.10[00001010]

No of IPAdd=24 No of Host = 24_2



200.56.78.47 [00 10 1111]



If subnet mask is 255.255.255.248, then which of the following can be Direct broadcast address



200.32.64.135 [10000111]

5m: 255. 255. 255. 11111000

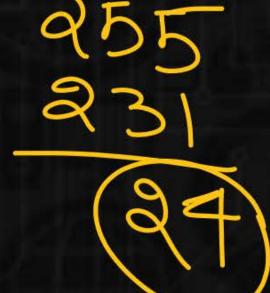


200.32.64.240[1110000]

HID=36it



200.32.64.207[11001111]



200.32.64.231 [11100111]

(A,CID)



If subnet mask is 255.255.240.0, then which of the following can be Direct broadcast address



157.157.15.255[00001111·1111111]









 If subnet mask is 255.224.0.0, then which of the following can be Direct broadcast address



100.31.255.255

31: 00011111



3+8+8=19 100.7.255.255

7:00000 111



6 + 8 + 8 = 34 100.63.255.255

63:00111111



100.30.255.255 0 8 8 11 1 0 • [[[[[]]] 8 8 8 0



5. If subnet mask 255.255.255.224, which of the following will be Direct Broadcast address?

A. 202.15.19.127 [0 1 1 1 1 1 1 1 1

B. 202.15.19.63 [0011111]

- Both a and b
- D. None of the above

SM: 255.255.955.11100000

HID = 5 bit



