## CS & IT

## ENGINEERING



Subnetting Parts - 06

DPP 06 (Discussion Notes)



By-Ankit Doyla Sir



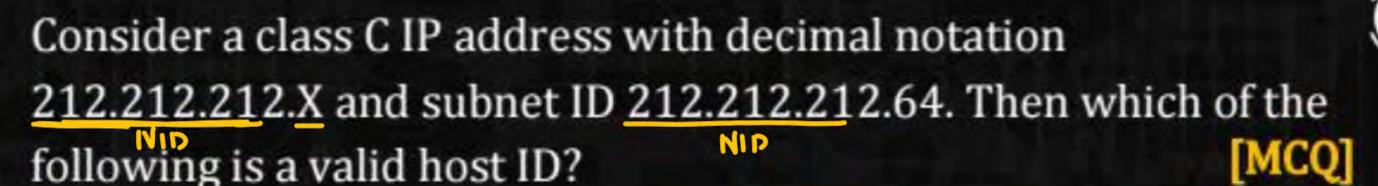


TOPICS TO BE COVERED

01 Question

02 Discussion







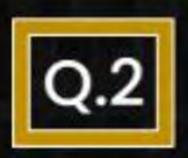
212.212.212. (X - 64)



212.212.212. (64 - X)



None of these



Suppose, for a network, HID and subnet ID are 196.196.196.1 and 196.196.128 respectively. Then which of the following is a valid IP address for given host ID and subnet ID.

(Subnet mask = 255.255.255.248)





196.196.196.127

196.196.196.129

196.196.196.0



None of these

TPAdd AND SM SID

(a) |96.196.196.01111111AND
ASS.ASS.ASS.ASS.11111000

SID = |96.196.196.01111000SID = |96.196.196.196.190

```
(b)

IPAdd = 196.196.196.10000001

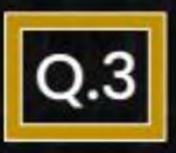
AND AND

SM = 255.255.255.11111000

SID = 196.196.196.10000000

SID = 196.196.196.198
```





If IP address of the network is 197.197.197.117 and subnet mask 255.255.255.224. Then which of the following is valid subnet ID and host ID respectively?



197.197.197.96 and 197.197.197.53

197.197.197.96 and 197.197.197.31



197.197.197.21 and 197.197.197.96



197.197.197.96 and 197.197.197.21

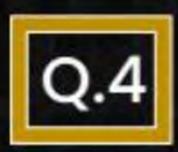
TPAdd= 197.197.197.117(
$$\frac{64+32+16}{4+4+1}$$
)

AND AND  $\frac{5M}{4+4+1}$ 

SM =  $\frac{255.355.355.334(128+64+32)}{510}$ 

SID =  $\frac{197.197.197.96}$ 

[MCQ]



Consider IP address of network is 192.192.193.21 and subnet mask contain 29 ones then, what is the host ID?

[MCQ]





192.192.193.16



192.192.193.15

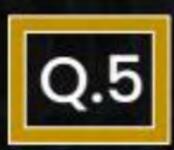


192.192.193.5



192.192.193.1

5m: 1111111-1111111-111111000 255-255-255-248



Suppose, a subnet mask contain 27 ones then, how many subnets are possible in class B? [MCQ]





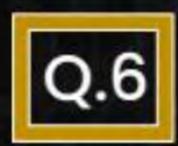
$$2^{11} - 2$$





$$2^3 - 2$$

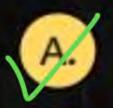




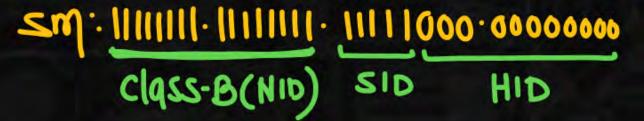
For subnet mask 255.255.248.0 which of the following is/are correct?



## [MSQ]



Number of subnets in class B are 32.





Number of hosts per subnet are 1022.



Number of IP addresses per subnet are 32.



Number of hosts per subnet are 2046.



Consider the following IP address and subnet mask:



IP address = 198.199.32.176

Subnet mask = 255.255.255.252

Which of the following is subnet ID for given IP address

and subnet mask?



198.199.32.76



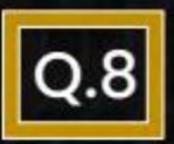
198.199.32.176



198.199.32.3



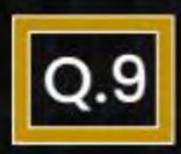
None of these



For subnet mask 255.255.224.0. How many subnets are possible for class B? <u>&</u>



[NAT]



A subneted of class B network has the following broadcast address 130.21.95.255. it's subnet mask.

[MCQ]



HID=18 bit (HID = 13 bit) No







is necessarily 255.255.255.128: ₹55.255.255.10000000 (HID ≤ 13Ы+) ж



None of these.

DBA: 130. 21.01011111.1111111

HID (an be maximum 13 bit

(HID = 13 bit)

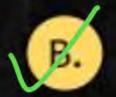


Suppose, direct broadcast address of network is 129.129.127.255 then which of the following can be possible subnet mask for given DBA?



[MSQ]





255.255.255.192: 255.255.255. 11000000 (HID SIB bit) yes



255.255.0.0 : 255.255 00000000 00000000



255.254.0.0

DBA: 129.129.01111111.1111111

HID (an be maximum

15 bit (HID=15bit)



