CS & IT





IPv4 Addressing

DPP 04 Discussion Notes



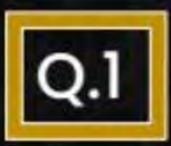
By- Ankit Doyla Sir



TOPICS TO BE COVERED

01 Question

02 Discussion





HID=13bit
$$\Rightarrow$$
 No·oFHost|subnet = a^{13} ?

= 8190

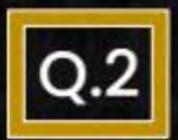
No·of o'x in the sm

= HID

HID=13bit

No·oF Host|subnet= a^{13} ?

= 8192-9=8190



An organization has class B network and wishes to form subnet for 65 departments. The subnet mask would be?





255.255.0.0

Class-B



255.255.254.0



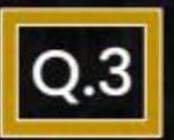


255.255.194.0

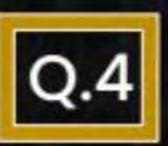
65 Subrut



255.255.252.0



In a class B network on the internet has a subnet mask [NAT] 255.255.252.0. What is the minimum number of hosts per subnet is/are possible. So, that subnet mask fails? 1033



Suppose, network ID of entire network is 176.178.0.0 and [NAT] subnet mask is 255.255.255.0. If X is the number of bits borrowed from HID and Y is the total number of subnets in network then the value of Y/X is ___. $\frac{256}{8} = 32$

No. of 0's in the sim = HID HID = 8 Lif

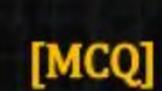


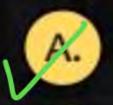
Suppose a network ID of network is 160.160.0.0 and subnet mask is 255.255.254.0. The total bits are borrowed [NAT] from HID part is/are _____.





If a class B network on the internet has subnet mask of 255.255.252.0. What is the maximum number of hosts/subnets? (Assume classful addressing scheme is





1022

followed)?



2046



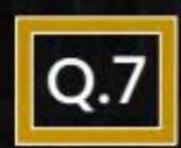
1023



2047

SM: १55.255. 252.0

Max. No of Host subnut =
$$2^{10}$$
 = 1022



Consider a class C network 15 subnets and 25 hosts per subnet. An appropriate subnet mask for this



[MCQ]

network would be?

A. 255.255.240.0

B. 255.255.254

c. 255.255.255.240

None of these



