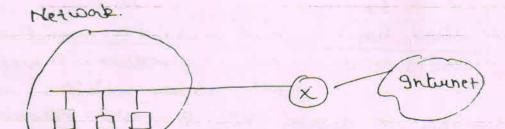


Now yet subrut mask kyo dekhata hais work istige subrut mask k toh Houter Ko Chahiye hots hai Houte decide Kanne k lige, toh hamana system subrutmask ka kanta kya hai.

Suppose Kohi system A hai aun System B hai agan dono ck hi sub network min belong karde hai toh woh directly data exchange Karepakte hai, noutur Ki aawaskta hi hahi hogi.



& Agan hamko Ase B ko data Sind karna hai doh hamanu pass 2 way hai ya toh hum Houtur fan data Sind kare then router decide karlega. USKO Konse inturface far forward karna hai. Ya phir A Ka fass riska

Subrit id hai	now up subrut id de
woh anding kark	re afra retid fater
Karega then B	Ke if he bhe ending
Koviga aux het.	id findout Karuga, agar
match hotata hai	toh A assume & B
bhi us network	mun hai who jume woh has
toh wooh directly	B Ko facket Send toudigas
Houter Ko nahid	
	Α

the Griven two if address and cours fording Substitut Subnetmask and then what you conclude from them -

IA: → 200. L. 2.10 SA: → 255. 255. 255. 128

IB: → 200 · 1 · 2 · 69

SB: → 255 · 255 · 255 · 192 ·

 Now
 IA
 IB

 anding SA
 SA
 .

 200.1-2-0
 200.1.2.0

Hur A sissume Ki B uske network meentight

Now IB IA SB

. . . . . . . . . .

200.1.2.0 200.1.2.64

Hure B assume Ke A Kisi aux niturorle

Supernetting

Now given Direct broad cast address, what you can conclude from that &?

200. 1. 15. 255.

broad cast address min Host od all is

200. 1. 0000/1111. 1111111

Now, 12 bits has one has, but agica bhi toh hosakta hai ki 200. 1. 00001 (111. 111111)

> het-id ta fart ho.

\* Joh ek broadcast address. Se hums kuch Cernelude rahi Kangakte hai (Sahi se)

# Concept of Eufrenetting: (aggregation).

Subnitting min hum kya karte the bigger hetwork to small-small retwork biggur hetwork to mun divide karte the.

But Supernetting is the reverse of subnetting

Yaha far hum Small- Small relivence to Combine Karke bigger retwork mein conunt Karde has

ft

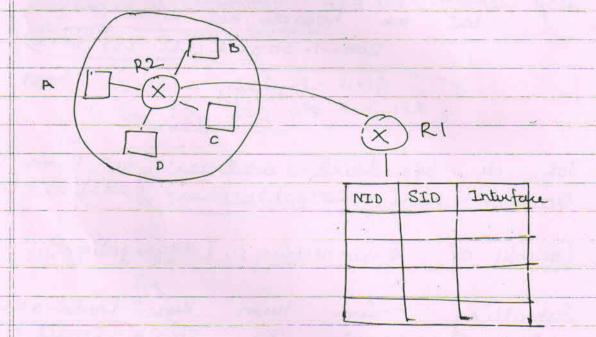
## IPV6- 128 bit ke hote hai

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But quistion Juh hai aaise Requirement Kyo aaye.

Agan Houter Ki table bahut badi hogaya toh Searching time distresse ho jada hojayega toh telay injurase hojata hai, is ch reason yeh bhi Supernetting ka.

For example:



Suffrese Abhi RI table four entries rakega. (A, B, C, D) ki, but ham aaisa bhi loho Kangakte hai ek RI ek entry rakhe then R2 decide karega ki woh if address kie subnet ko belong karda hai.

Le problem : ko repolve kanne k lige submetting ka concept aaya.

1 ready by supernetting

First of all, all networks are not suitable for aggregation, only some are suitable. Some rules are there for supprinting.

(1) All the networks should be contiguous

2) Size of all the relivour Should be Same and Should be in the fourth of 2

(3) Frist if addruss should be divisible by size of block.

Example : -

200.1.0.0124

200.1.1.0/24

200.1.2.0 | 24

200. 1. 3.0 /24

Contiguous + Obeying

equal size = 28 ( power of 2)

iii Blocksize = 28 \* 4 > 210

Füstik address = 200.1.0.0 is dividesible by 12

Now suburnet mask kya hoga =

uske lige Sabhi it ko binare min likho.

200. 1.000000000. 0000 0000

200. 1.00000001.00000000

200 · L. 00000010.0000000

200. 1. 000000/11.00000000

jaha tak bits same hai woh hammene net id ka foord hoga.

255. 255. 11111100. 00000000

· superutting mask

aux net id.

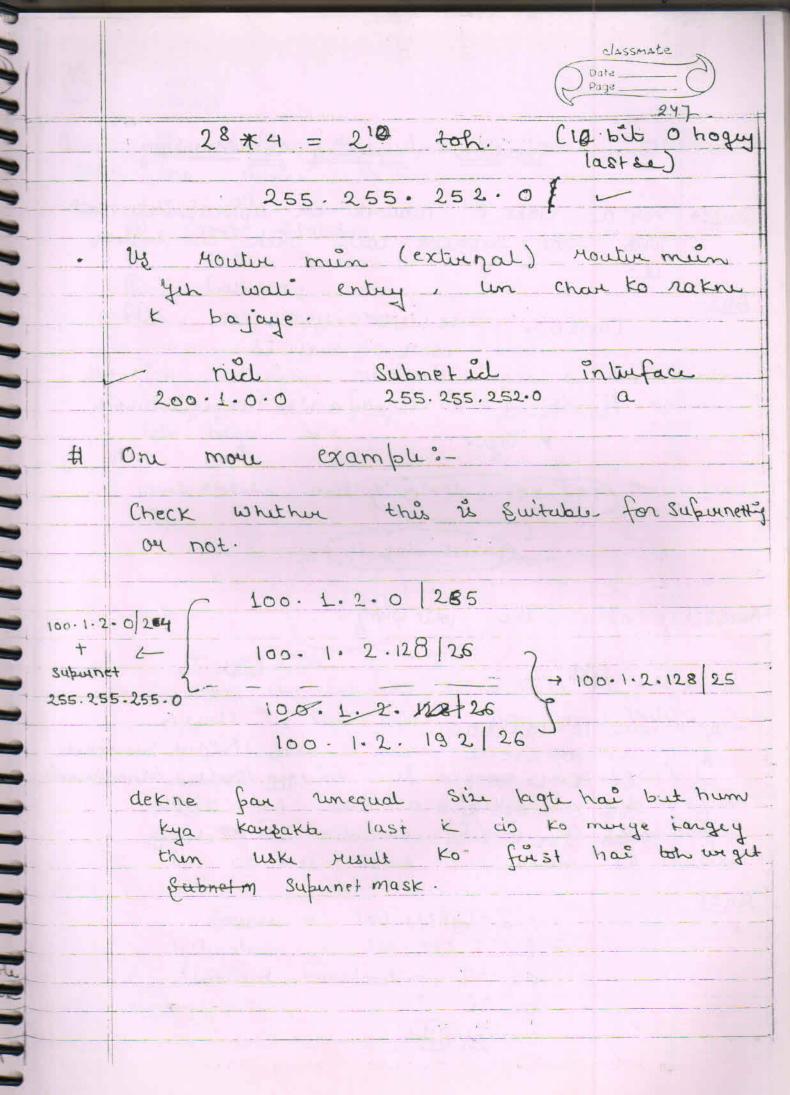
kohî bhî îf-addrusi blo us charo hu se am uskî anding furform karo sufurnet mask si toh homne net-iel mil jayega.

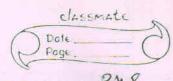
> 255. 255. 252. 0 200. 1. 1. 0 200. 1. 0. 0) /202.

Shoutcut: -

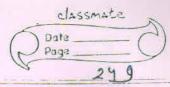
D fanale if address = nd\_id of whole Supernet network

Estant basso to its address hogy mena, home k baad





	Page.
H ;	Some question regarding 24 addressing
	N. C.
Ourse >	For a Class B network an affrobriate mask with 200 Subnets each with 220 System.
	with 200 Subrits each with 220 System
A	L&
Ans-	Class B: > 16 bit > net_id
	16 bit - host - id
·	200 Subrut K lige 8 bits lagage Subrut
	K lige.
	(255. 255. 255. 0)
	Subnut mask ib
Δ	Cu
Ous 2:>	Match the following:
	List I List. II
A	200.10.192.100 L Class A
В	7. LO. 230. L  128. L. L. 254  "I" Limited broadcast  128. L. L. 254
C	255. 255. 255. 255 ivi Class C
E	100-255.255.255 V Class B
Ans	A
	A → ind. ind.
Samuel School	C- Y
	p- ii
	E- Û/(iii)



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Ous-3	A derice has two or more IP address
Ans-	n n
	@ work Station
	6 Router
	6 hateway
V	(et) all the above.
#→	
	has riske fass atteast et it-address
	loh hoga his
•	Work station mattab host can have one or more
	ip .
	-> M-1
**************************************	N-2
	agan ek network down ho ta hai toh durena
	Start hojayega usse connut karlega
Ous 4	A host with "ip address. 200. Loo. 1. L
	wants to send a facket to all host in
	the Same network " What is the Source
	if address and distination IP address
Ans-	
R 51 5 67 5	Souther = 200-100.1.1
	destination > 255.255.255.255
	(Limited broadcasting)
	La de resolution de la final d

Classmate Date Page

Oug: 5 A host with if address 10. 100. 200. 200

wants to use loopback testing. What is

Source & distinction IP.2?

Ans

Loop-back testing: -

mattab aafike n layer froferely work karrahai hai, NIC work karrahai hai ki rahi froferety uske lige 127 wali Class IP address reserved hai.

Source IP:- 10.100-100.100 distination IP:- 127.0.0.0

> yaha for kuch bhil hosakta hai except all o's and all 1's.

Ours-6: Plow many bits are allocated for NID and HID in 23.192.157.234 address ??

ags

This is class A address

SIID = 24 buts.

Ours-71 Consider default Subnet mask for a AKRY network is 255.255.0

How many number of Subruts and host for Subruts and from HID