Efficiency of delayed Token reliase: Case I: - When only one Station wants to 1 = tx (x+tp)+ (txA + tp) frame Case II: When every Station wants to bearing Extept EXAt tolk 802.5 LAN Standard is delayed token Relaase Maximum efficiency given by carry token release. East & -dist Minimum Normal Ethurnet -LOMPPZ 2500m fast Ethwend -100 Mbbs 250 m Cigabile Ethernetlabbs 25m In higabits Ethund 104865 2-5m In early taking rulease the station reduces a Loken as soon as it complete the frame beans - mission, than what will be the friendly of token

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Ous:	Ring min bit delay kitana hona Chakiye kut Hing min bit dulay kyo hona chahiye ??		
	Charlege but ring min bit dulay kyo		
	hona chahiye 22		
1			
Ans-	Islige hona chahiye, to ken Hing min ek concept hota hai ki token func Hing min.		
	concept hota hai ki token june ting min		
	accomate hona chahiye.		
	Kabhi ovulaf nahi hona chahiye mattab		
-	agan ek system K fass fûrst bit hai token frame ki to uske fass last bit of token nahê		
	frame Ke to USKE pass wist bit of when mind		
	hona Chahiye		
	Hay sustem K base Kuch na Kuch bils		
	Han system k Jass kuch na kuch bils honi chahiye token ki.		
•	In Other words, token et jagah store nahe		
	hona Chahije:		
•	Agan token ki lingth waise to 3 byte hote have mattab 24 bits to ring min 24 bits		
	hai matlab 24 bits to Hing mun 24 bits		
	Ka delay to hona chahiye.		
	0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
	Suffose flan system token ko fadta hai cum copy copy bhi kanta hai toh fadne mun aun copy Kanne min min bhi time lagta hai toh every		
	Kow mis miss bhi time lagter bas toh event		
	Sustin Introduce delay		
	System Introduce delay.		
	Suppose han system Ka 1 bit delay produce		
	twite hai agar four system has tob		
	Krute hai agar four system har tob 4 bit ka dulay froduce karuga.		
	Q ' 4		

Suppose I bit afki 20m min aarchai hais matlab afke feuri wire ki ling th 400 m ka hona Chahiye,

20 bit Ka delay froduce kanne k hige beause 4 bit Ka delay toh System min froduce kon diya hai fan baki bacha hua 20 bib wine froduce kangey.

Agan will ki lingth loom hi haw toh. yuho To kit ka dilay froduce kangey total dilay kitana hua 10+4=14 bits.

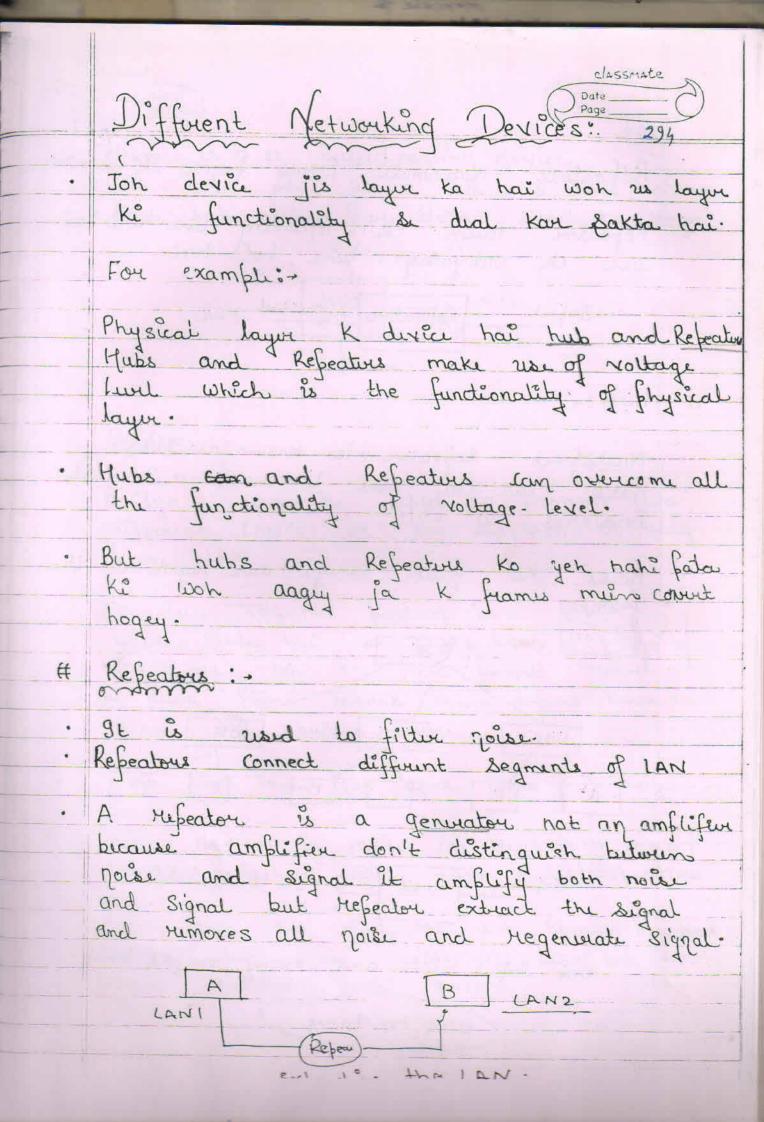
Baaki Ka to bût ka dilay monitor Entroduce Karuga rung min.

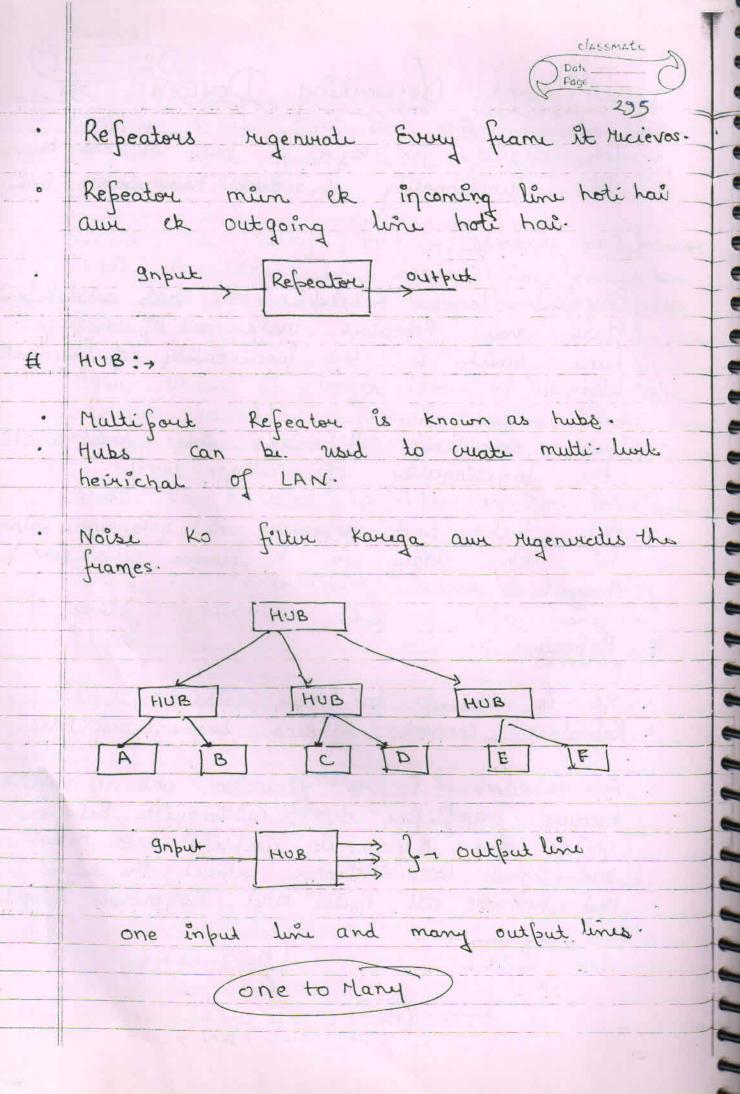
Joken Ki overlaffing hatane k lige ring Should broduce dulay of token frame i'e 3 bytes.

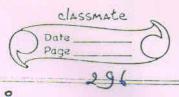
Jotal dilay in = Size of token.

= Wire k karan + System k karano delay delay

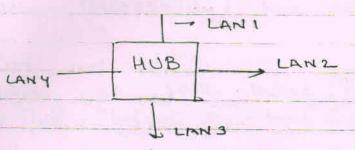
+ Additional delay provided
by Monitor.







Hub is a broad casting device (Jis line & aay a hai us line to chou kar sab line far data send kar dega)



Brudges: -

Bridge can be used to connect two different LAN's on the segment of very large LAN.

EK Lan Cthurnet fenotocol fran (LLE)

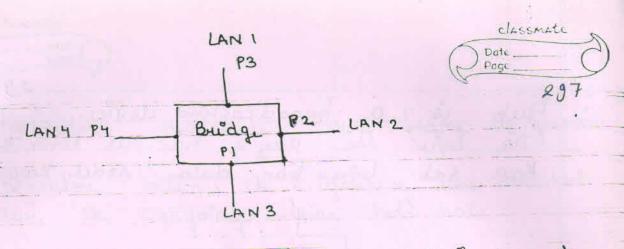
work Kanta ha' aun dusna token (MAC)

Hing fan, toh ek frame format Physical. In

Se dusne frame format mins convert konne ka

kaam bhe buidge karda.

- Data-link Layer for work toute hai bridge.
- This device is more intellent then hub! Heboalins but costly than hubs Refealins.
- Agan Hub zusi Kiya toh won hamisa broadcast Kanega but agan bridge rise Kiya toh woh hamisa broadcast hahi kanega.



Harm Agan ek ethurnet lan han ann ek token ring han toh yeh convention (frame convent toh kan data han, but this convention take times and many problems occur after convension.

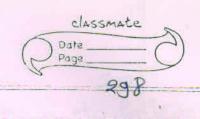
Pahale broblem: - and most bosevious broblem-

Sabhi 802 LAN brotocol min maximum and minimum lingth four Histriction hai,

Joh ek token ring 50000 Byte ka max.

frame send karpakte hai toh ek frame bridge k bass gaye now conversion hue the Ethernet min 1500 byte se jada ka clata ek frame min rahi jasaktee toh kya yaha frame Spith hoge, bridge kohi spliting ka kaam nahi karta hai, toh buidge simply us frame ko discoul tau deta hai. I droß kar deta hai.

Joh basi cally is problem ka kohi solulion hahi hai buidge simply dropped that frame-



Second Broblem :-

A Second broblem is that interconnected LAN do not necessarily Hun at the Same data Hate.

Joh agan ick LAN bahut fast send kan Haha has bridge ko > tok aun ek LAN bahut 810W,

LAN1 (Slow datas

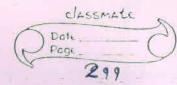
(Fast data ride)

buidge fahale fure frame Head karega then send karega, toh may prossible ki buidge out of buffer hojaye fast data Hade ek Side se aaraha hat islige toh kuch frame. discard hojayegi isproblem k karan.

Phild Broblem:-

→ Ethurnet mûn. Kohî briovity ka concept nahî
hota buk Token Ring mûn hota haî tor
Token ring si Ethurnet fan dala send kija
boh friovity will be lost.

Joh hum et hi unvusal frame format kyo nahi use karte. There is no valid technical reason for this incompatibility.



9t is just that none of the comporation supporting the Standard frame format.

As a rusult any coping belown different LAN requires reformatting which lake CFU lime requires a new Checksum calculation & introduce the fossibility of underted vivor due to bad bits in the buildy memory.

Agan (IBM, Xurox, GH) yet then committee ek formæt frame formæt fram agnu hojaye boh yen converding til Jarenat hi nahi

ff→ Buidges maintain the table of Mac-addresses (physical address) for forwarding discussion.

On the basic of maintaining the macaddress table buildges are classified into three Categories

Simple budge

Transfaunt buidge Source-Roubing Buidges.

(Self - Learning

Simple Bridges:

· Easy to implement.
· Entire table of budge is maintain manually

