· How bridge have the mac address.

Suppose we want to send frame from host A which is in LANL to a system C which is present in LAN3, then what will happen.

Firstly A will broadcast the frame in its LAN as well as to bridge, the bridge will Store the mac address of A, touse Source address & , Kya havn Kiya Ki A LAMIL mun har, now buidge kya konga. Jis incoming line se aaya hai usko Chor K saare line far frame broadcast Karega .

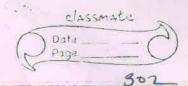
Then LAN3 four C how C K pass frame fachuguy thun C response mun acknowledge-ment send kanaga buidge hann karlega ki C, LAN3 mun hai aux Jab bhi C to deta Send karna how won four I four forward Karuga.

In this way self- leavining buildges maintain its mac- table rédated.

This algorithm is called backward bourings

working of above algorithm in equival-

If destination 8 source et hi can muin hou toto discard the frame.



2. Agan destination and source dono different LAN muin has ton forward the frame

3. If the destination LAN is unknown as flod

Advantages:-

· Agan LAN mun Kohi bhi change hua tob Self- Learning bridge maintain its mactable updated itself.

· Hamre Lan I min joh A host tha resko LAN 3 min attach Kardeya toh kyo hoga.

Joh self-Learning buidges muin kya hola hai, jaisehi kohi System "on" hola hai LAV muin woh ek control frame send karta hai bridge ko for testing aux bridge afni table muin riska fort number store karta hai ki woh kis line se aaya hai.

Disadvantage: >

→ Infinite - Loop - problem: →

LAN 1

B2

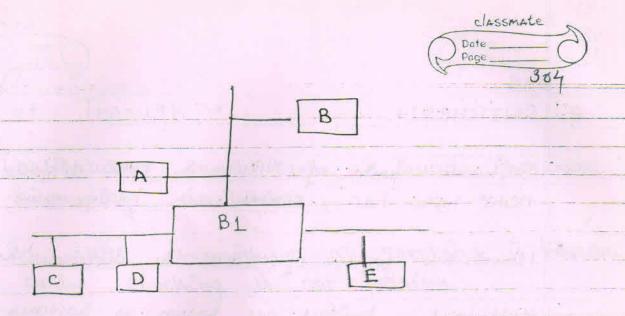
B1

A

(1) Lan-nadus haguy Now we want to send A to Z toh kya hoga B2 broadcast Karuga B1 k fass aayega BL bhi broadcast Koruga in this way a loop min bachu jayegi. Les situation ko resolve kanne K lige Spanning but ka use karte hai. Lan nodes hogey am buidges unbe bich ki edges Bridges together form the Spanning tree of complete Network. Spanning true banana time-comsuming hotal. Any Change in network topology rusulting new Spanning but which are very time Consuming. # Source Kouting buildges:-Source Routing mattab Ki source will drude Which youla to be followed to send data to Herievus. There is no maintainance of mac-table have

9sme et discourry frame generate hote hou

to decide which noute to be followed-



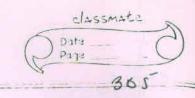
Suppose we want to send data from Host A to Host C if B1 is sounce Houting buidge then first A will send discovery frame in which source address is there i.e A then go to B1 in B1 buidge A LAN B1 or A PI B1 will be willen than A PI B1 C P2 D1. Now C will Hisponse to power of discovery frame. Now A will send frame with that fath.

Agan bahut bada network hai toh bahut gaane discouring frame CK fass aayegey but woh sing frist water ko hi Makhega aun baak. Saab ko discourd kan dega.

First Wale ko islige Hakega kyoki joh fahole oayegi woh Shoulist falh follow karki hi

Agan bahut saam buidges hai toh discovery frames K Karran Confestion hojayega, jeh iška disadvan terge hai

. And the discount form so fath forta ton k woh each mun Store Konlega.



#	SWITCHES	:->
11	200 710110	

- · Software foint of View Se kohl difference hahi hote hair, Switch aux bridge musik.
- · Handware foint of view de difference hoteshai
- · Multifort buidges are known as switches.
- # Diffuence between be Switch and bridge 22.

 Ans = Buidge mein limited fort hote has assert

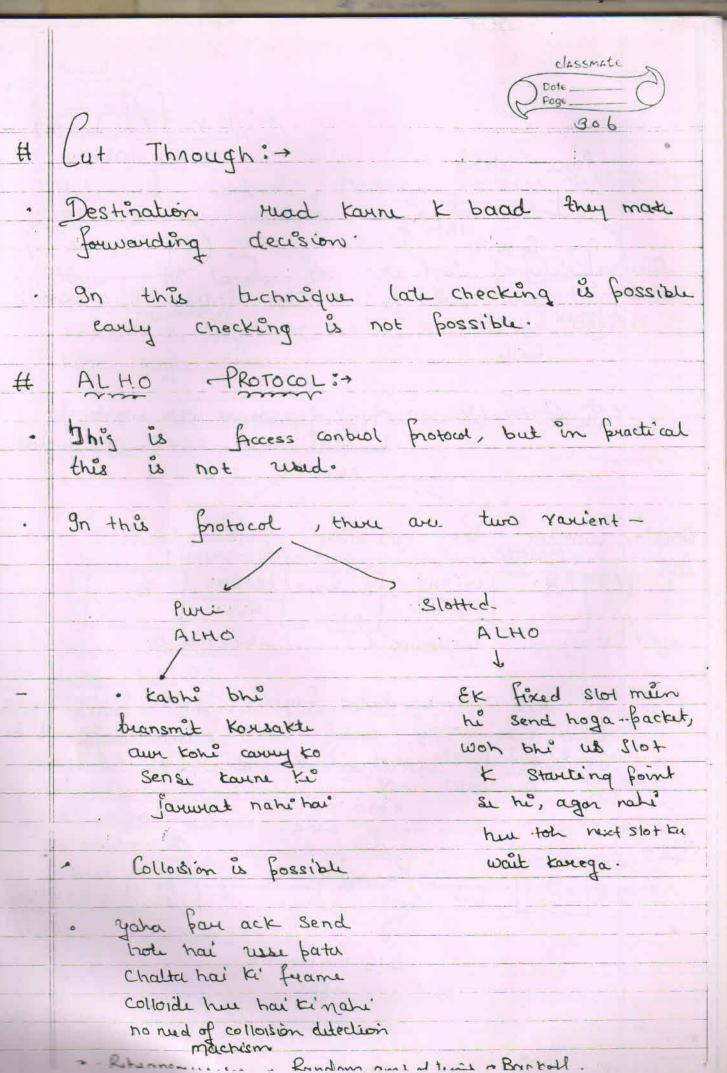
 Switches age
 - · Bridge forward frames stowly as compared to Switches.
 - · France Ko forward Karne Ki Spud bahut fast hole hai as compare to buidges.
 - · Thur are two ways in which switches are forwarding this frame.

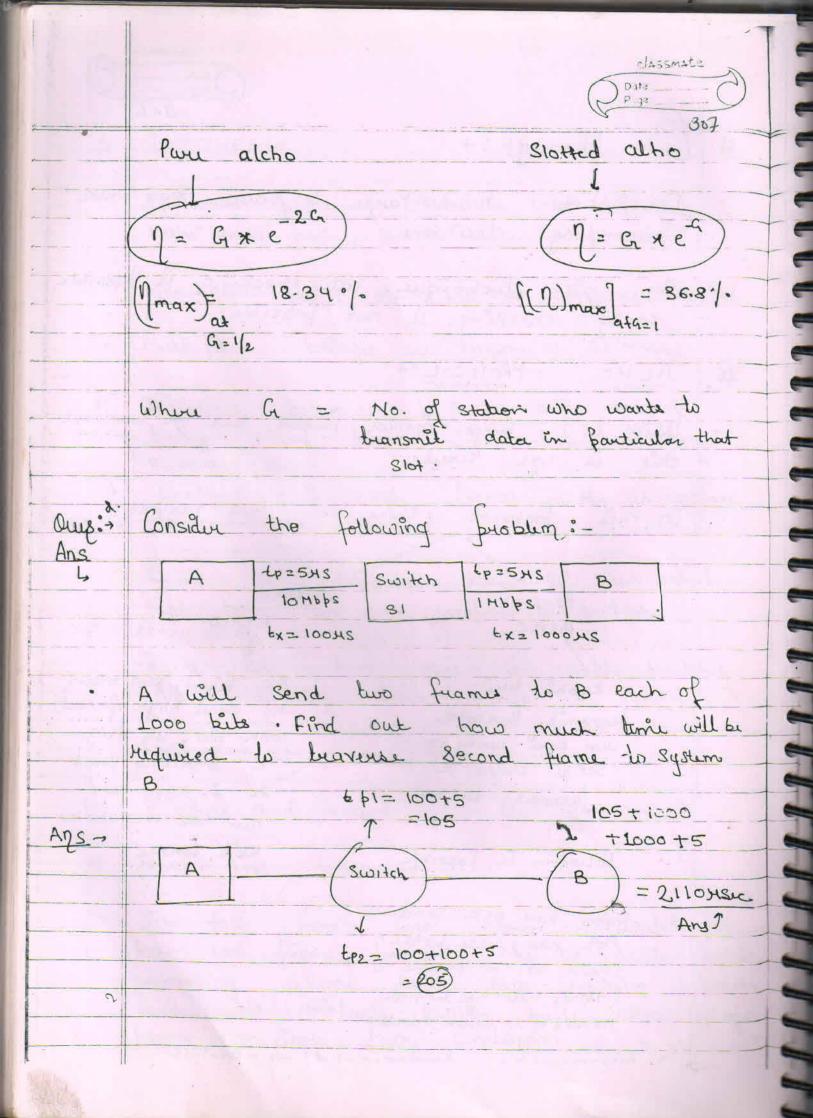
Furst one

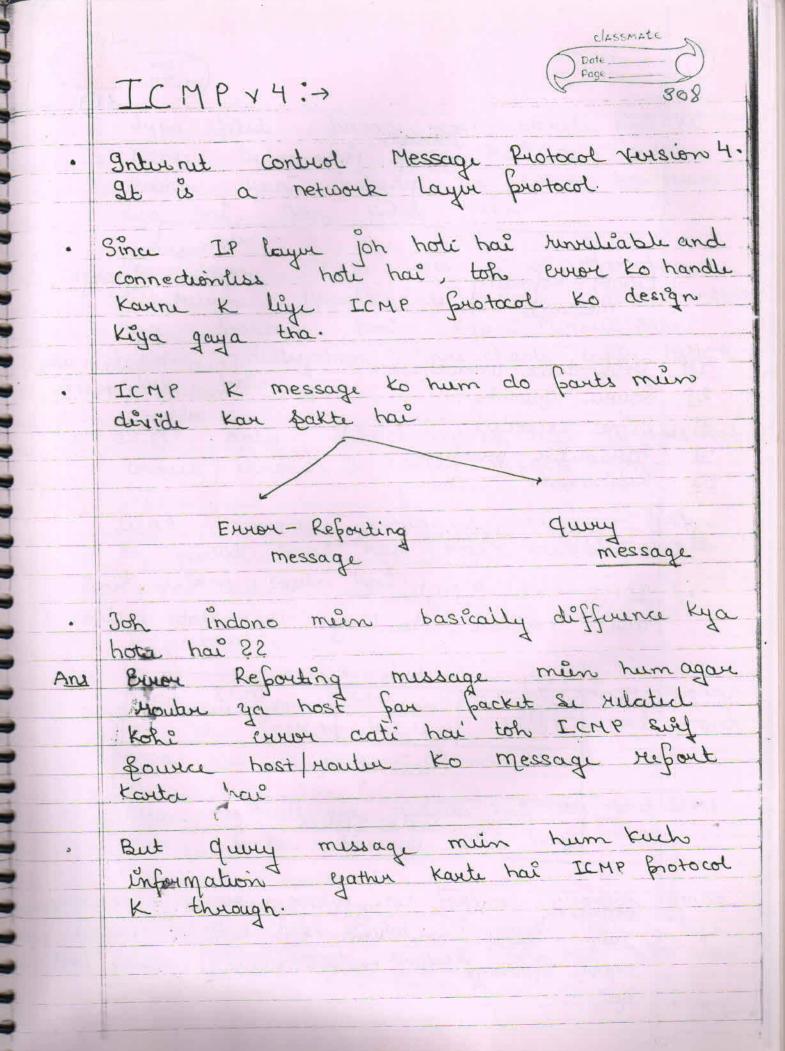
Store and forward but through

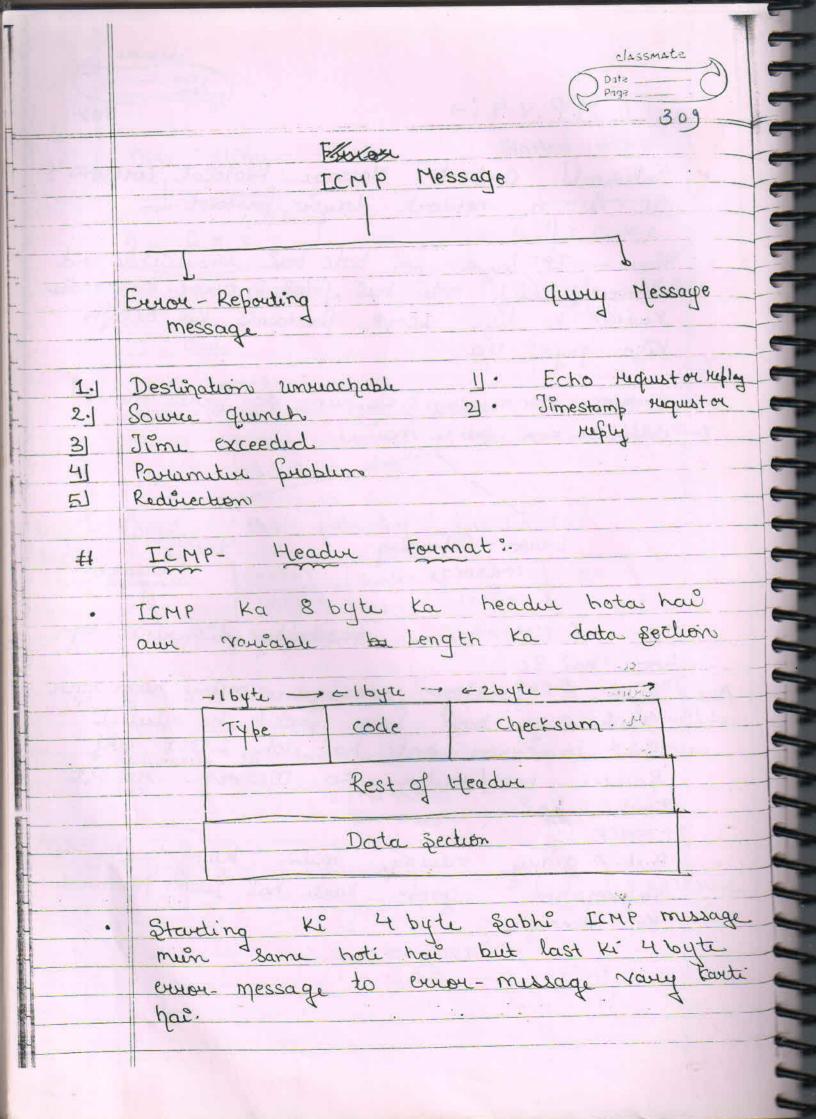
Store and forward: >

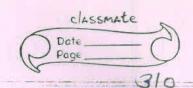
Jab tak funi frame read nahi tarelete jub bak woh frame forward nahi kar sakta. In this forwarding scheme larly - error-checking is fossible but switches minkuch memory buffer hona chahiyo frame to slove tarne k lige.











Jype field, hamne yet batati hai ki Konse type ki evron hai aun code hamne yet batata us evron ka ruson kya hai aun ditail min.

For again Type field = 3 hai mattab distination unsullchable, now unme further kya problem hai, kyoki bahut saari broblem distination unreachable error Hellet Kante hai.

LCMP only detect even but it does not count evens; it simply report them.

ICMP hamesa orugonal source it jaha 81 packet Send hua hai initially USKO hi send Kouta hai.

Important:

Agan ICMP facket mûn hi everen angayê Joh vis facket k lûge ICMP nahî generate hoga.

Agan multicast address har both bhe ICMP ovor facket generate nahr hoga.

Aun agan facket k further fragment horaha har toh Sirf füst fragment wale k hige hi ICMP facket generate hola har bich walo k hige Mans hota har.