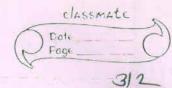
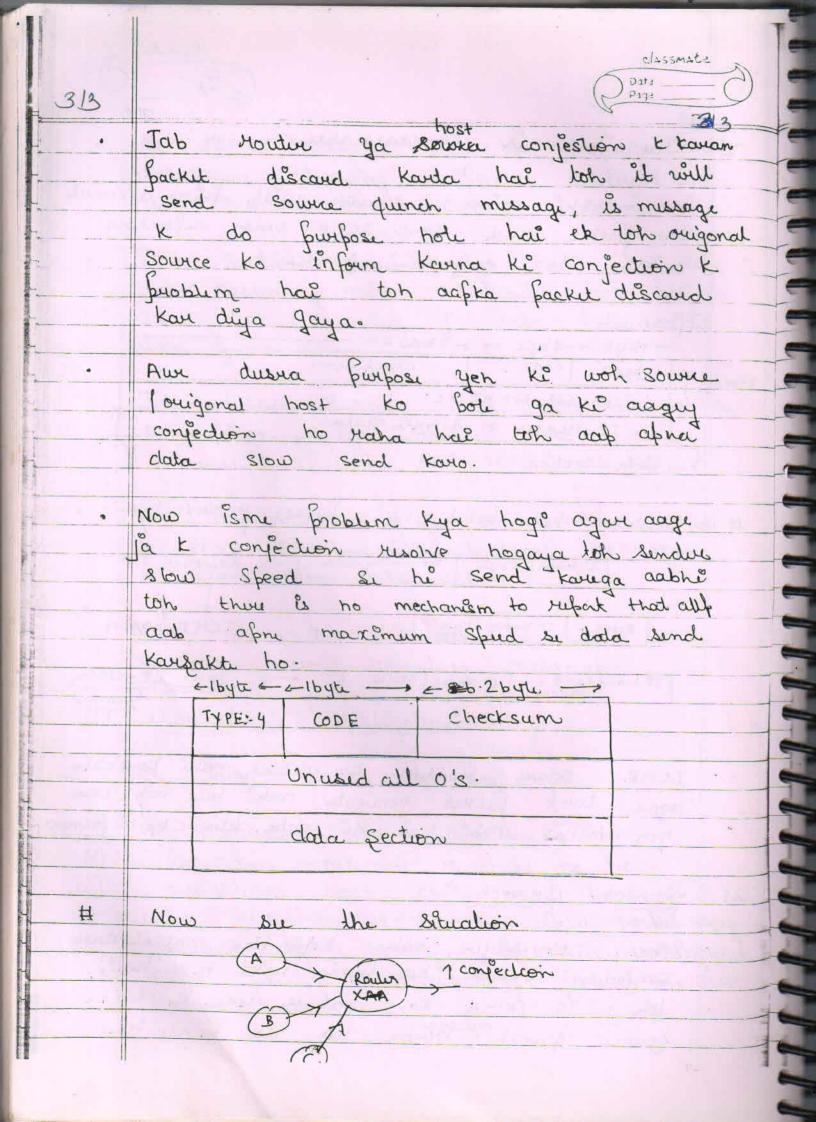
	Page SOL		
•	and the same of th		
	datagram having a Special address such as 127.0.0.0 by 0.0.0.0.		
	as 127.0.0.0 by 10.0.0.0.		
•	Data Section min kya hota hal, toh		
	data-Section min IP-header hota hai		
	aur first 8 byte of data hota hai us		
	data gram Ka.		
	Chromatic inches in the public and the latest transfer delicate in the state of the		
0	Joh füst 8 byte min hota hai kya toh		
	us first 8 byle min Pout no aux		
	Joh fürst 8 byte min hota hai kya toh Us fürst 8 byte min Pout no aure Sequence no hota hai TCP- facket ka.		
·			
	yeh information islige charlige rahati hai		
	So that ICMP, TCP - protocol ko curou		
	yeh information islige Chahige Mahati hai so that ICMP, TCP - protocol ko curou. K baare men bata sake.		
	Now we are discussing in detait about Various ever reporting missage.		
	Various evere reporting missage.		
	Unuachable distination:		
•	Yeh evror Kab aati hae jab :>		
<u>"</u>	Hos! distination host rutchable na ho.		
111	distination network reachable na ho-		
iùi	distination host exist name Kanta how		
lyi	Jab DF = 1 Set ho am apko packet aagey		
	forward karne k lûge facket k aur fragment Karna fare tab Unreachable destination ICMP		
8.	Karna fare tab Unreachable destination ICMP		
	through karda hai.		



I The fout is unreachable Les insabhi min Houter will first discard the facket and Send ICMP even reforting missage to original source:> Header: - 1 byte - - 1 byte - - 2 byte 6 Huadye & Type=3 code unused set all 0's IP-Header + 8 byte data - data section Now Sabse pahale IP packet Hecieve hua: IP-header 8 byte remaining data -> Recieved IP ICMP IP-hadre 8byte data ICMP facket IP-hader ICMP IP-hader 8 by to Sent IP-data gram ICMP Saare problem to detect rate targates agan ICMP facket generate nahi hur tok iska you mattab have has Ki data deliver to he jayaga. ,2] Source quench:-Since IP- Layer mien kohî flow control auer confedien control ka funda nahî hota harê, lõh is kind ka feature dene k lige former funch missage Kar Var Karde hai



Now x send source quinch missage to all the Houtures:

35. Throne MOVE

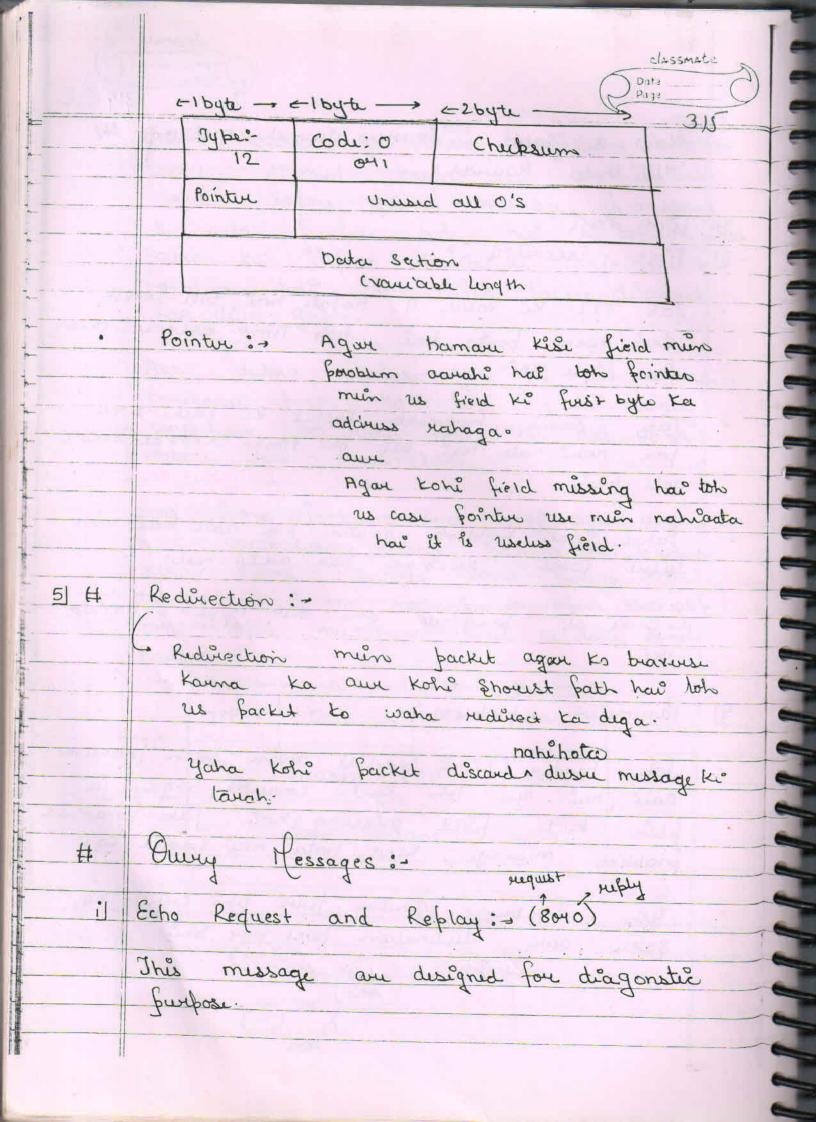
31 Time - Exceeded : >

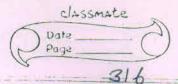
- · Jab TTL Ki value O hojati hai ton facket drop karna farta hai, tab Time-Exceeded euror gend hoti hai.
- Jab saare fragment facket ki kuch time far nahi aate hai tab bhi Time- Exceeded voron aati hai:
- Pahali wali froblem router fan aati hai aure dusur wali . Hereven fan aati hai.

Coame as fourious one but Type = 5 hojata

4) Parametur frobling:

- Jab hender (IP k header) min kuch froblem aati hai ya toh kuch corrupt hogaya ja fehire kuch field missing hai, jab faramiter froblem mussage send hota hai sower Ko.
 - Juho froblem Nouter far bhe create ho Bakte aux distination host fare bhe.





Network work manager and resure utilize Ehis fair of message to identify network broblem.

The combination of echo-requist 8 echo-replay message debumines whicher two system can communicate to each other (host/router).

· Echo- request and Echo-replay missages can, be used by retwork managers to check the operation of the IP protocol.

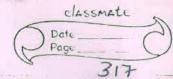
practically ('fing" command & Echo-requist ruby Ka laab (finida) ritaza jata hai.

Echo- request and Echo-reply missage can list the Heachability of the host. This is usually done by invoking the bing command.

Pime. stamp Request and Time stamp Reply:-

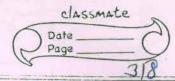
Similar hota hai echo-request and echo Reply but gaha far time the note Kiya Jata hai.

Two machine (host/router) can use the timestamp - request and time-Stamp refly message to determine the round-trip time needed for the IP datagram to beare blothem.



THE FOREST STATES AND STATES AND STATES

			Page	
	Cours	of Time	stamp - Request reply missage.	
			-c 2 byte -	
		Cocle		
	1 -	rifûn	Sequence Humber	
	Origonal Time Stamp			
	Reciève Time Stamp			
	Transmit Time Stamp			
		in Literatur		
	yaha jata		f ms mun measure tiga	
(m).	Time fi	BXP = bis	= 32 bit Ki hai boh 32 bit	
(=	mein hum (232_L) Store Kanwa Sakte hai			
~ ~	but there is restriction on that we can			
	give time up 24 × 60 × 60 × 1000= 864 × 10 5 00=			
	tuk.			
			Mary and the second	
*#	Origonal Time stamp:			
\rightarrow	Kab data send hua hai sendur si.			
	10	III W V , LOU	1	
#_	Recieve Time stamp :-			
			C	
→	Kalb Hi	creve r	fass rusere hua han	
4.6	19.100001	Tonasha		
- 4+	Transmit Timestamp:			
	Kah Haci's	N. W. S.	Reply macy sund Kinja hai:	
	THE TECH			



Now jab Time stamp request send hote hou toho
origonal Time-Stamp Ki value set hote her aux
bake dono Time-Stamp Ki value on o kauke
Send Kaute har.

· Now, jab reciever send kanta har refly message ton origonal toh as its copy kardi--ga aux sath min undono ki value bhi rak diga.

A Transmit kann men = Recievre - origonal Kitana Time Timestamb Timestamb

Recieved Time = ruturn Time - Leansmit Time:

-> Round but Time = Sending + Steciving Time .

Zime Stamp - request and Time-Stamp reply message can be used to calculate RTT blu Source & distination even if Clock is not & ynchronised.

Time-Stamp request and Time-Stamp reply message can be resid to Synchronize two clocks in two machine if exact one way time devaluing is known.

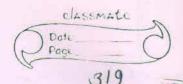
Ours: Augonal Timestamp = 46

Recieve Timestamp = 59

Juansmit Timestamp = 60

Hulaum Time = 67.

Transpart layer



What is Round Truip Time 22

Ans: <u>tending</u> Time = 59-46 = 13

Recieving Time = 67-60 = 7

Round Time time = 20 ms

- H. The checksum for ICMP is calculated using both header and the data-field of the ICMP musiage.
- # Fransport Layer:
 - · It is a heart of TCP/IP suit. It is located between relivour Layer and application Layer
 - · It recieves survices from network Layer.
- # Survius broxided by Transport Layer:
- 10 Process To Process Communication:
 - Sabse fahala job! Kaam hota hai hansford Layer ka ferocies to from communication frovide kare.
 - → Sabsi fahali hum dikti hai frociss to frociss aux host to host communication min Kya difference hai ??

