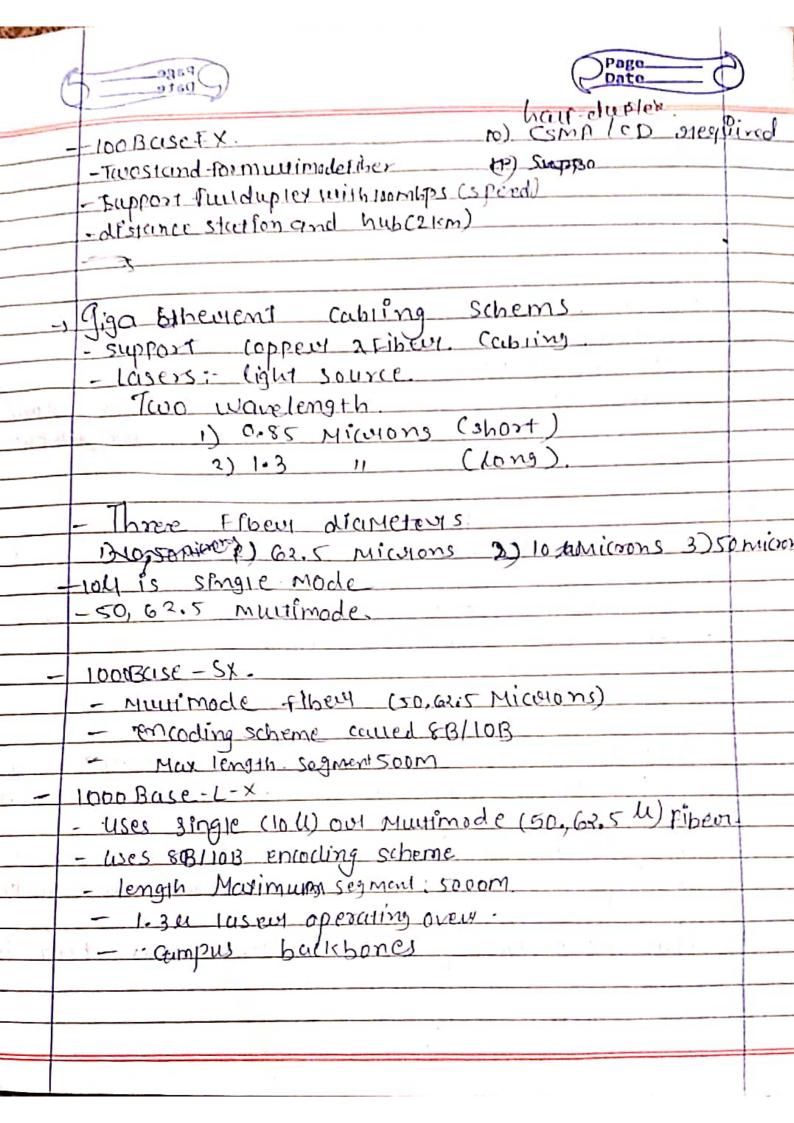
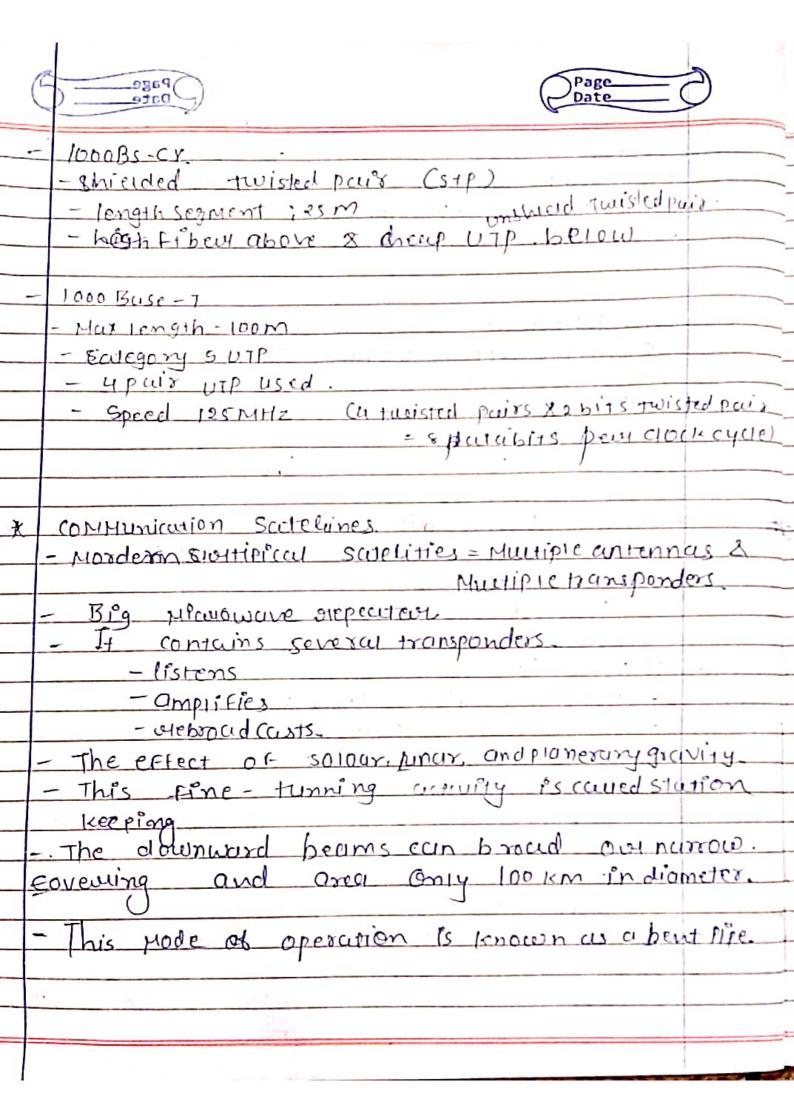
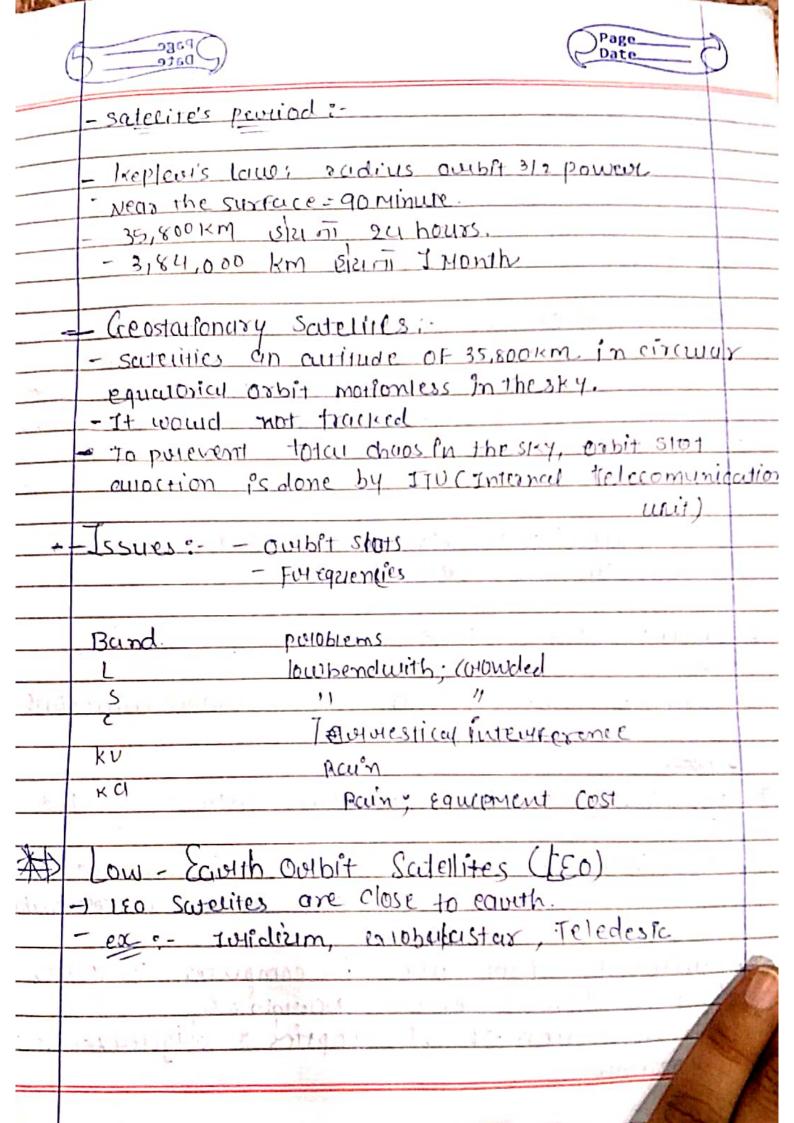
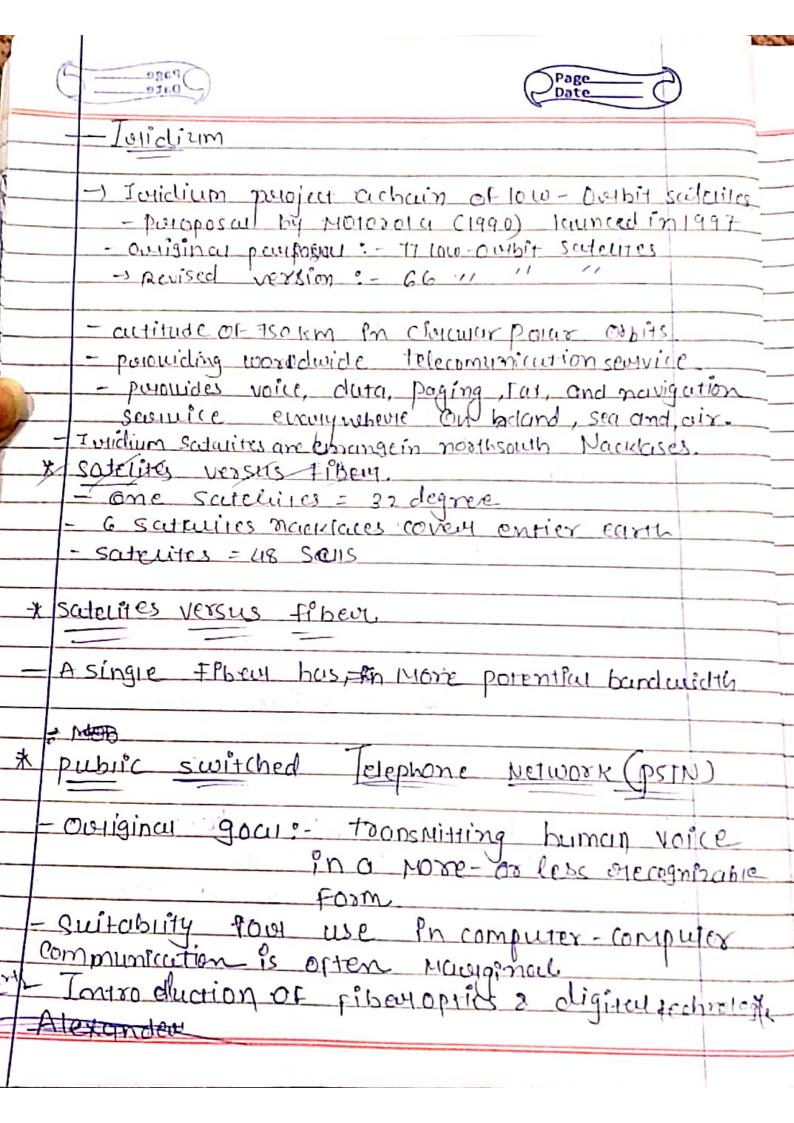
C	Comprised Parinos	
5 		Standard approved in June 1942
	Comp/cp:- (anvier Sense Fast etherent	Crigabit Etherent.
1.	Jeff 802-344 June 1995	1. IEEE 802.32 In 1998
	d ada speed g- 100mbps	2. dutaspect i 14BPS
	chegory 3 UIP	3. Standard 4. Support harf & Vul duplet made 5. Crigabit - point to point:
	encoding Scheme 8B/61 en shitmap 6120es:	G. Common configuration of gigabit ethererthaning bup or suitch 7. central suitchis
Cu	OBUSE-TX	connected to computers on the peniphery.
Ti Ein Si	no touisted pairone noding scheme 4B/SB repport -funduplex. Peed 100mbbs	9. computer & suitch bestwoonline is full duplex,



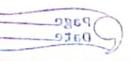






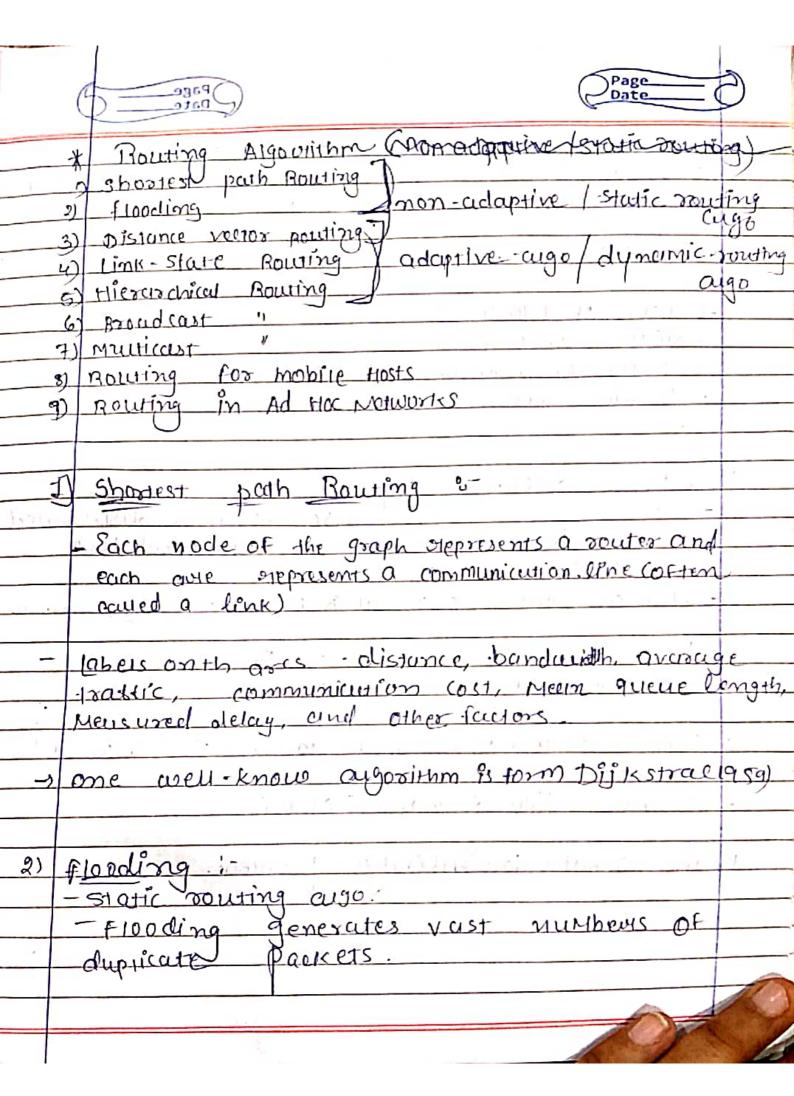
ADSL:-Alexandar Graham Bell patented the relephone in 1876 - permior to 1984, the telephone system was.
Ourganized as highly - redundant, Multilevel highery. - Two- whe connections between each submitters telephone and the pud off for are known In the trade as the local loop Chap 2 Pouling, Congestion Control, Tunnelingant * Drug gram Subnets Vs violant = circuit Subnets -Two defferent organization semilies. 1) connectionless semulice 2) connection oriented semple Connectionles senvice: - dutagram,

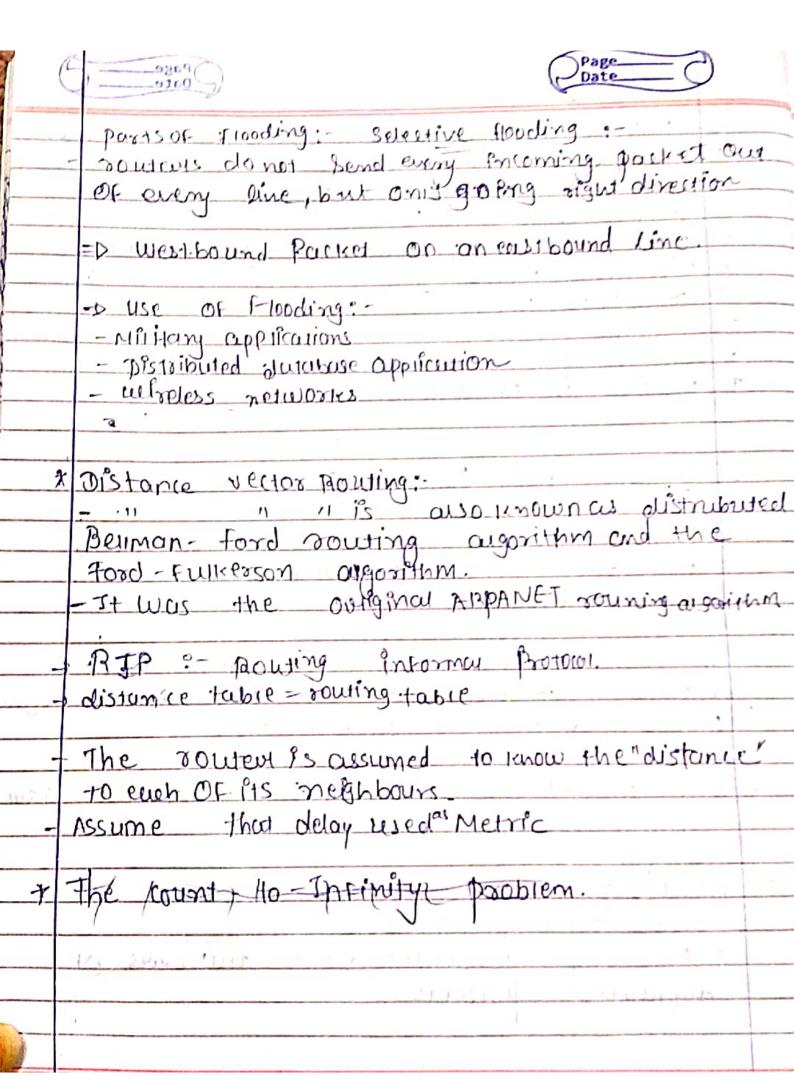
- Driggian Subnet of advance Setup is not needed =D connection orniented Service: porth soutes to & Posts Eurom Source souter to the destinution voluter. before any doc packet is called you - VC: - Vistua Clocust - Telephone system & subnet is called a virtual-circ supret Compargion of Dalagram Subnetand vistual- chollent Subnets. Datagramsubnet virtual circuit Issues not need grequired Circuit Setup Tun gloung & short Addresing destinctionaddress venumber

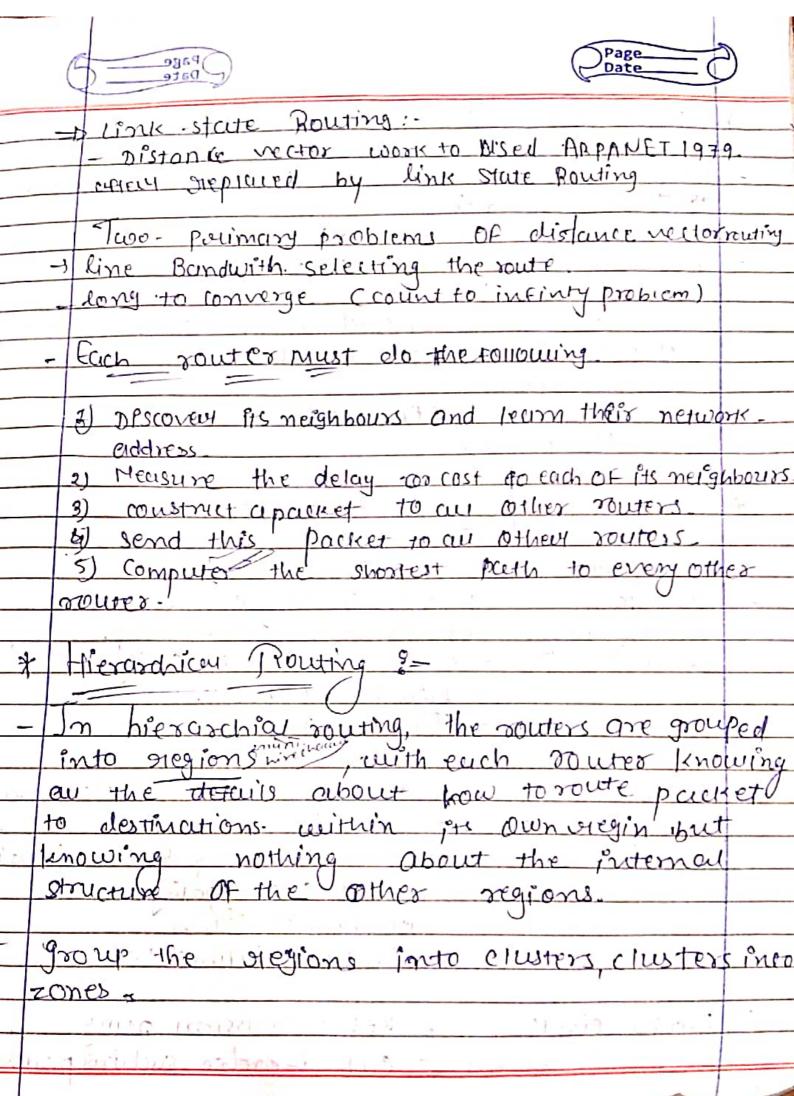


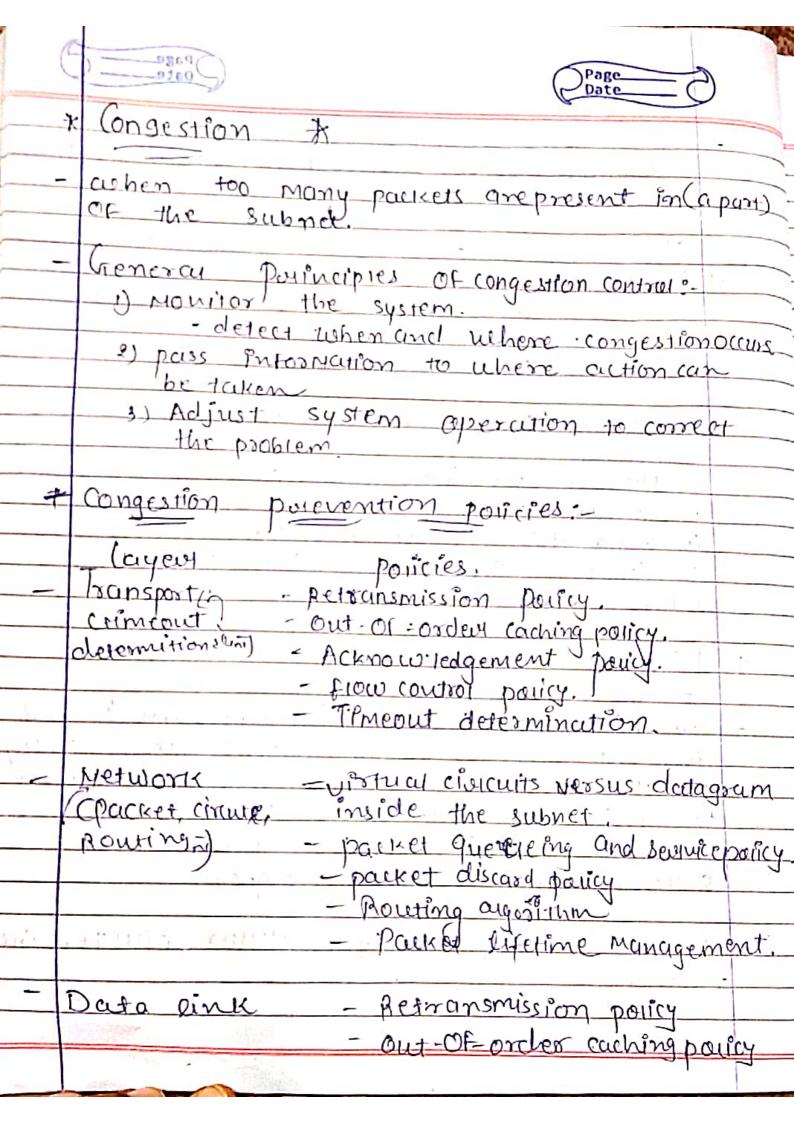


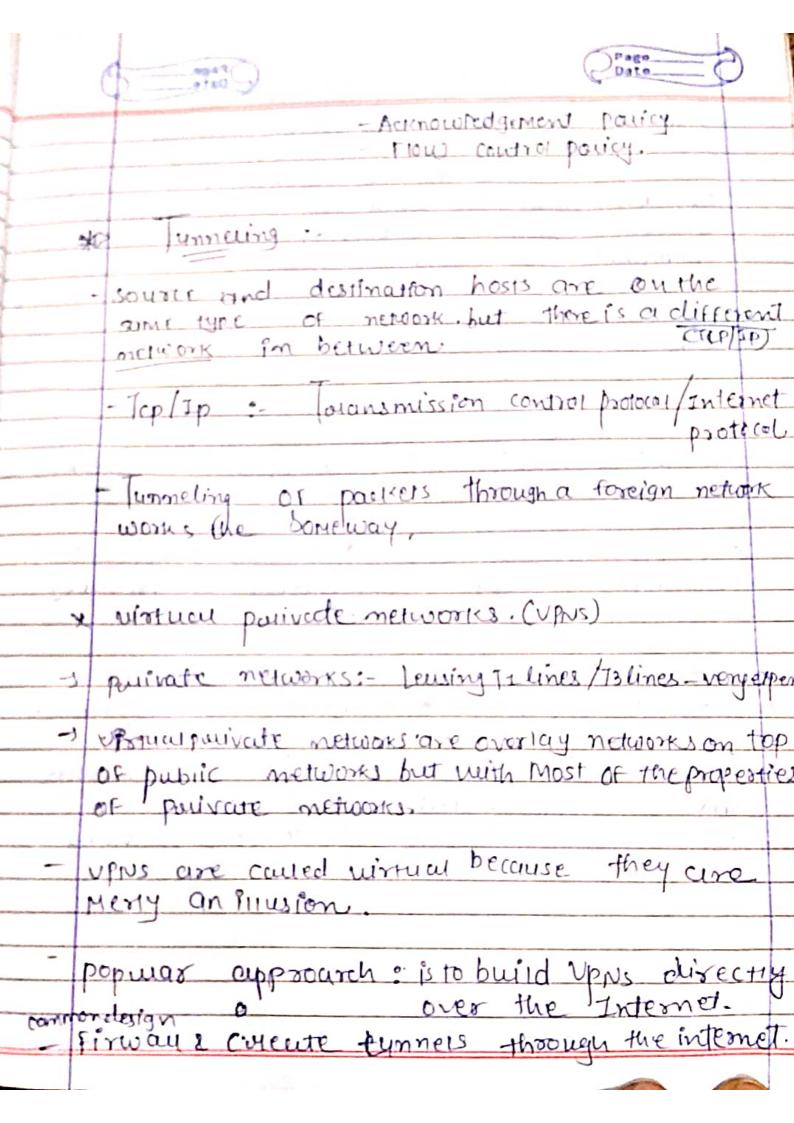
	State information	Rowers donot	VC MEd MILO
		hoid	2011 Entrusie
	Routing	Routed independitly	route chosen
	EFFECT OF YOUTEN	Packet lost	faired souter terminated
	quaity or semvice	diffeny	easy.
	congestion control	The state of the s	ettin veri
*	Pouring Ago	rithm	, , , , , , , , , , , , , , , , , , ,
=)	Main Function of Packets from the olesistination Mac	e source Machine	ey is souting
		adaptive 2 non a	
<u>-</u> -p	Non- adaptive :-	and downloaded to	nce Off-linge,
×1 + 3	Strain want ou	when the networ	KPS Booted.
1	Adaptive -	Topology &trafic	ry be trace :
١,,	to a stable sees	(11)	
=	T ALL		











Source Address second policiss. Issec: Internet proporal security. Ipsec is used for the furnicing a single enuthrenticated, encrypted st. Thus, prioriting integrity control, severy, and even corridgrable laminity to traceic analysis. Esp: - En Capsularing Scensity Payload. Chap: -3 Internetworking and network Serusity - Internetworking - Nymerous protoce/are is CAN, NOW, WAN LUYER widespread use on every = SNA 6- SYSTEM NETWOOK Architecture - FDDI ?- Fyber Distrubuted data interface. -> Tox:- Interpretwork Dackage exchange.
-AIm:- Automated Tailes Machine Mutt puotocal laber Sucitching MINDELL " NACHOLINAN

		1		13/
	(2369	(Page Date	
		S - 300 How return	isks differ.	
		Item	Some possibilities	
	•	scululce offered.	connection entended vs comens	50
			JELS_	
	-5-	protocols	JP, IPY, SUA, ATM, MPLS,	_
		'	Apple Tall, etc.	_
		Addag. 9-00	stud (2002) NE hierarchaite	~X
	-	Addressing	Flut (8082) VS hierarchia (34	7
		Broad casting	polesent or obsent	
	- 1	packet Size	Every network has its own	\neg
		guerity	Marinum.	
Ag	-5	quality of sensice	- peresent or absent:	
		drawing of separate	Many different linds	
		Goran Landing	Reliable, Orderedeinel	
		From handling	uncordered delivery.	\neg
-	_	Flow Control.	Bilding window, rate control,	
		TIOUS COVOTOT.		
_	_	congestion control	other or none	
		Congestion Congres	bucker, RED, Choke, packets et	-
	-	0		
	- 1	security	pulvacy ones, encayption, es	7
	+	perocimeters.	Different timeouts, How	\neg
	1		specification, etc	
	-1-11	ceounting	By connect time, by packet	-
	-		by byte, or not at au.	\dashv
			0:0	_
\rightarrow	_\$		ways networks can differ.	
	LA	source on Metwork	Azansit one or morenelus	21
1331	1		neuton network.	_
	,-			
-	Pr	rotecol conversions	are need.	
-		Jaress 11 requi	red directory system	
			J /	
	-			





Differing oos: Tasue when a packer has orly-time derivery constraints - Oos - offline operating Simulator. Error Flow and congestion control: Different security rechanisms, parameter serving and accounting muis

* Fragmentation (30)

- Each network imposes some maximum size on its packets.
- Two Types of Fragmentation - Transparent "
 - Non-Transparent fragmentation

Transparent fragmentationi-

- when an overysized packet arrive at gateway, the galeway breaks it up into. Fragments.
- AIM world, Dagmentation is could segmentain
- All packets Must exit via the same guterary.
- AIm orequired transport frequentedion - small packet

