Module I

Date_____

CN

Network: A set of nodes connected to a commun. Links.

- + node -> device capable of Ending & Receiving
- * common links -> carries the info, can be wired / wireless.
 - * A comp (N) can be defined as a inter connected Collection of autonomous computing devices | nodos.
- A comp (b) allows nodes to share digital resources using data links like wireless media like wifi.
- wifi.

 * Nodes are (v) devices that organizes,

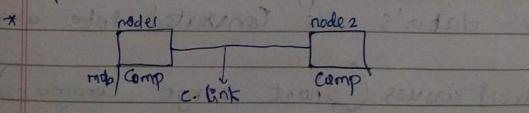
 * route & terminate the data & generally

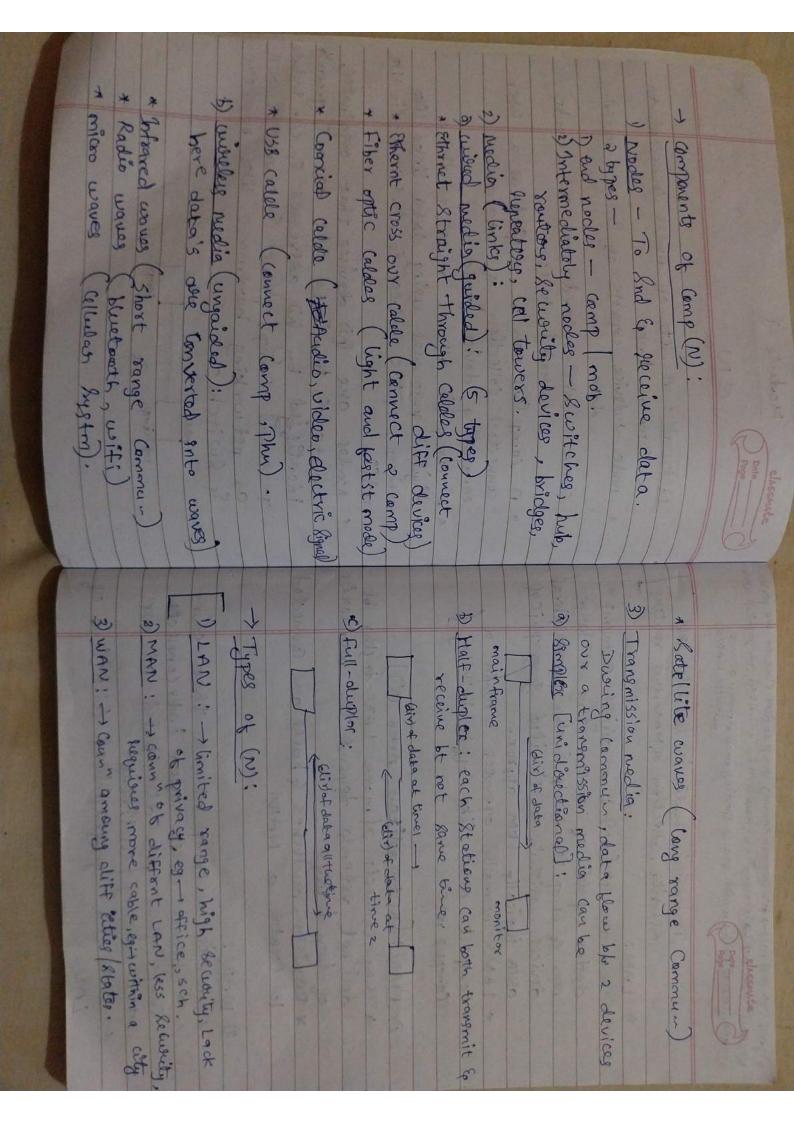
 identified by (v) addresses & can include

 personal comp, phones & sources of well

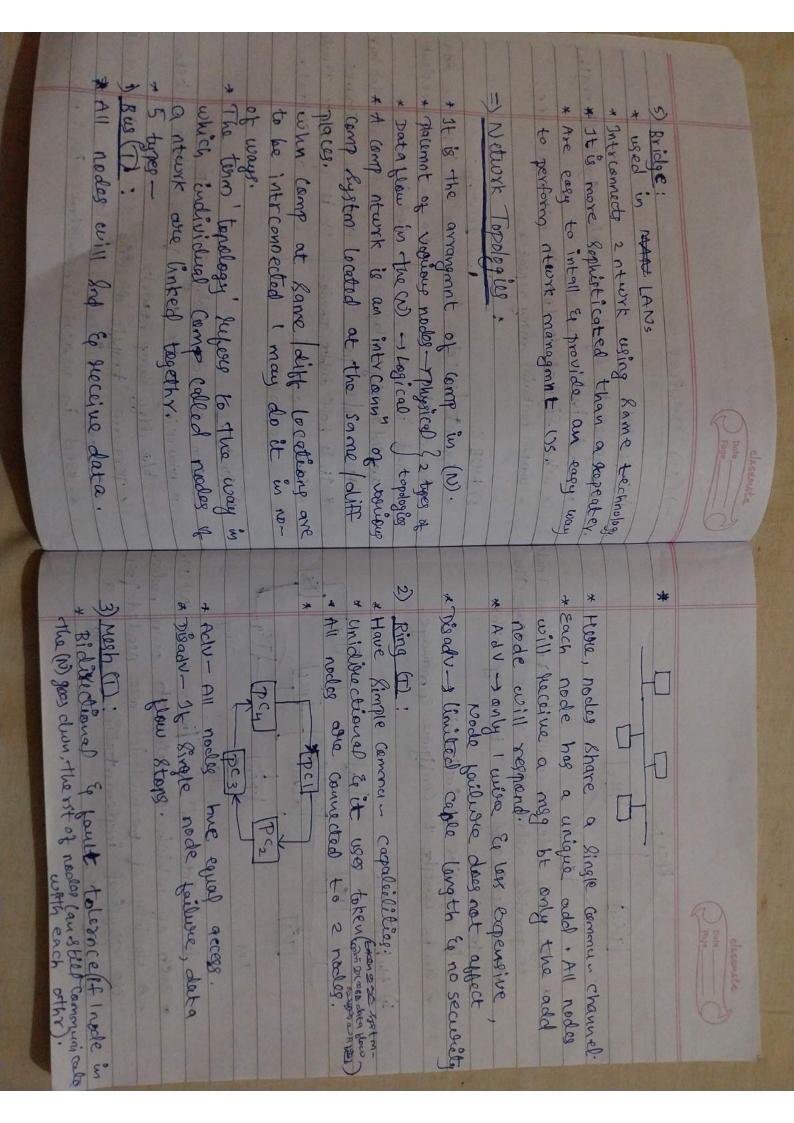
 as neturking hardware like routers

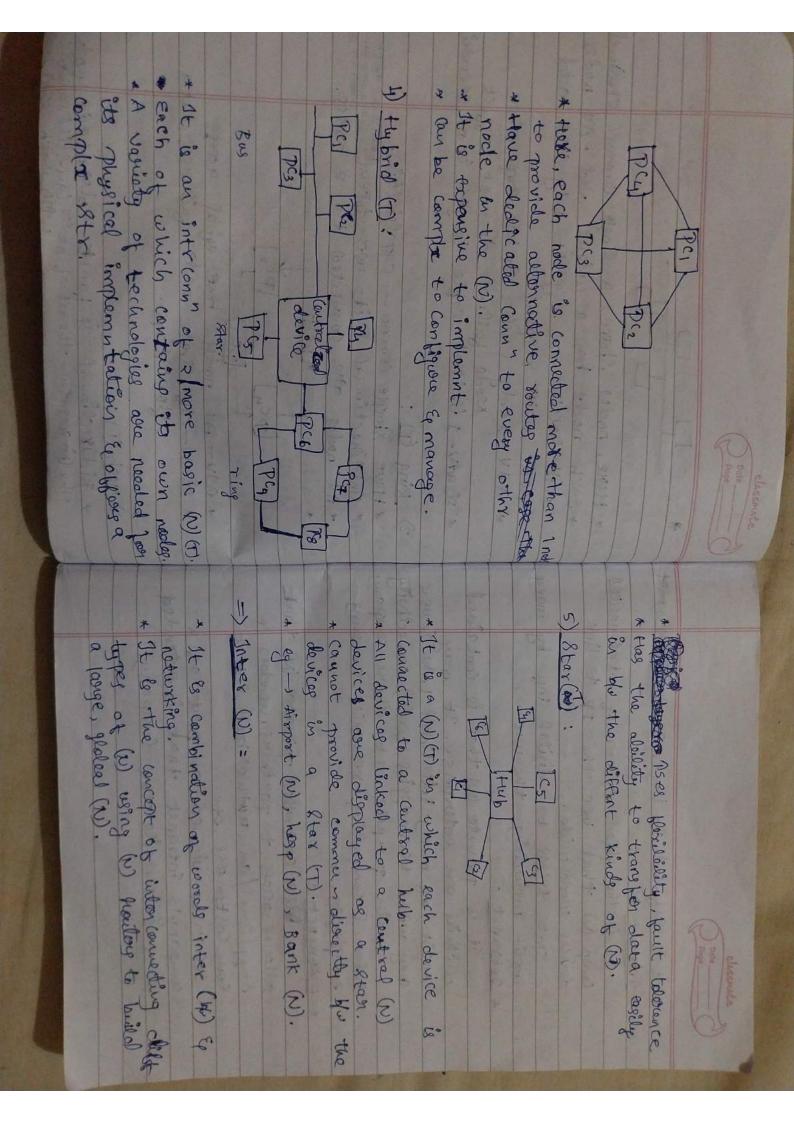
 & Switches.



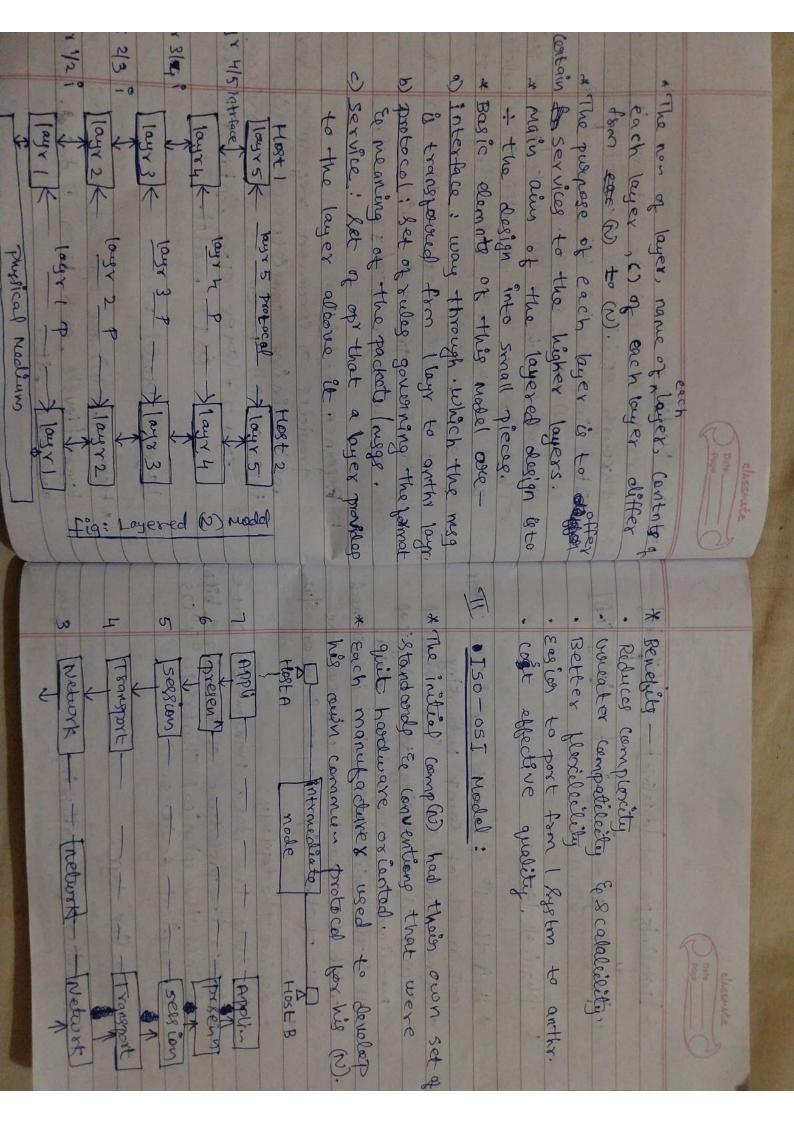


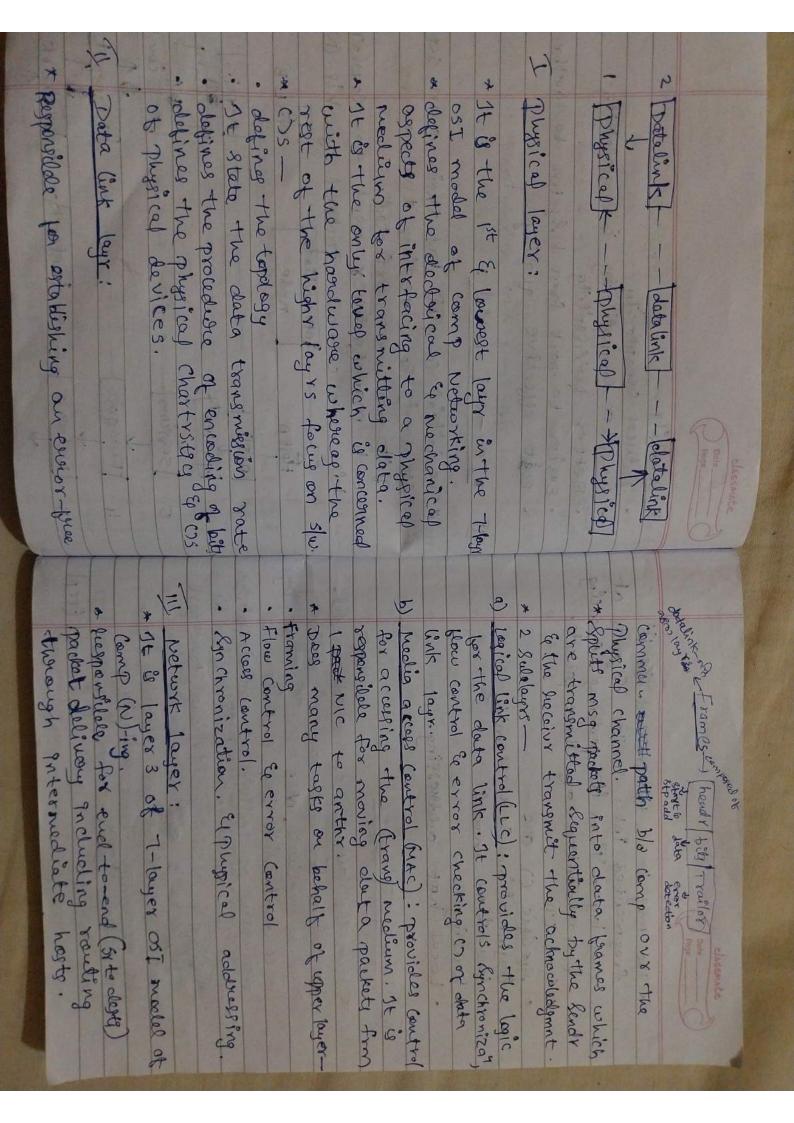
2 WAN is a lamp newer that cours a broad asea often intransacts comp's that sole obstributed all our the country continent. * WAN is a geographical collection of LAN.	of two lity. * Routers, Switches & hules are Connected to beate a MAN.	a) MAN: (nutro politan Area (D)) *They (connects a) more LAN togther bt	devices within a limited geographical of LANS normally operates within a compact of the oblide Juilding	DEAN! LAN! Local asses (s) (AN) is a disided communing the Local asses (s) (AN) is a disided communing the local asses as large of intriannecting a large assessment to make the local phred	by pan (mose of AN) - stor commer amounts can p devices close to one lose, introduced and introduced segmentical of the second and the supporting and commercial of the second and across war (compus an) - made for supporting and consider LANS. 6) wan (whole AN) - made for supporting and catallite, less
* can connect widely Equipes ip and * notworking device that parwards data packets * how diff camp networks. * perform traffic disecting Cys. an the intent. * a types - universe to amostly. * used in wans to sometimes in LANS.		* operated on the law. * operated on physical layer * Have Hilz ports	2) HUB: 2) HUB: 3) HUB: (3) Sw. (3) Sw.	i) Repeated: * regenerates signal to main signal strength. * used inside LAN. * when signal is lost, it will regenerate.	Cone Chasswate





+ It is enforced in Layer 3 of OSI - Iso made * Unternet: to user outside the Company. It ill a controlled private (N) that Supplies on authorized let of allower access to partners, wendon's & say (astancery, etc. employed. consist of many interlinked LAN & use any wan technologies for (N) convectivity Eule of computing resources amount desices world wide. camp (v) that use the IP to link appli- including the www. Sport access to digital into by many It is the global bystm of intribundent It is private (N) that is contained I Models: * Also referenced to and (N) Etacky (tractocal suits a) protocal models: * There are a non of aliff . (v) models -D Reference model: * users to communicate atransmit data * Here , the (w) one organized as a species of through efficient is ordered path. It is implemented using models to particular protocal Ruit camp () - 10 redels. Based on the fit of notworking a typetypes of W protocols & services. one below. it. Layered model: previoles a Common reference for layers levels, each layer is trulk up on the It is closely matches the Str of 9 eg - 7 - layer open systm intr cenn " eg + 4- layer TCP Ip model. (St) medel.





	Append December of December of
	asie the trans. Control protocol (14
3	* The best known to one not TOP I
*	to enchance data peliabily of
	lay control sessions standards for
* 3t is the lay of 6	Engling & successing stations transport
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	is concerned with the endinte render
Author Lican, permissions, Dialog Controller,	our a netwik, note that metwik by
7	handly and to tend dollnery
*	* 1+ 30 the lawy aid of network mudel.
checkpoints which are leveldered as	I somsport layer:
· Synchronization - It allows a op to add	lottered to allow to the love of the and the a
K Co. T. C. Company of the Control o	· Local hast addressing.
managing a sagious by end-user applies in.	Routing
& Structuring all sessions.	Convection to reassembly
of Camp (w) ing. Responsible for managing	* Specific () OUL -
* It is a low of in 1-low as I maked	1 to
	6 experience (See Those to have the
trans. & any seament and (DD)	this lower Than it seems by at
	* The rus of to be transmitted in 1st
O Detail	e Page
	chassante

by NIC, hule, scritch operate at these level.	(Kelliger)
- link	1
which a host is attached . This scape	JARO WINDER CLINS GULH GIT - SANSON
Her now in scape or local now count to	1
HOFFexs the ability to access the Physical	05.I TOP [IP
closest lays to n/w hardware.	1 that bearing more.
· HIST lay of top (to stack & if it is the	A trol to materal mater.
these are the	pop3 (post office protocol vession 3)
* conside of 4 layers, from lowest to highest	HTTP, SOAP (Rimple obj Access protocol),
transmitted, packetized, routed Execused.	introhange - (ous Damain name systm),
27 77	* Has several protocols to hip with info
*	the transfer, DB management lete.
SW1	* services appeared by this law includes
THE Transfer material	the wise enables across to the neurle
Applications proceed as a little	that directly port the end user of
The conception	equiented lays that provides service
10 . 11 % 15	model. It is besically the were
They should	* It is the top most lowr of the
~ NIC hub, Switch-	VIII Applin lay :
The parties of the	S. S
Netwik = Ip, ARD - Intent lays	
	* Ch I for the GO of the the
Transport 1 Tro 100 -	bly knot , sixting clate in the form of packet
TO TO State I will trate out want to use.	

C) Transport by: Hestalolishes bees deta channel that applin use for task-spright data exiting with Hither lays havide end-to-end integ transp with handled by T. lays. How one— Consider	3) ICMP (intrat control mgg (4)).	<u>a</u>		4 main (35) routing, checking data format 1) Top:
used for exchanging the hyper tet on digging the hyper tet on with the hyper la tegst response to with the hyper la the No. It is a regist response to one identifiable out the No. It is	applica like enals. Justile communicating from I applied layou for to anthr applied layor, the info is forwarded to transport layor.	queries to appli.	Postrat lays. Postrat lays. Theals with flow control to make sure a fast sends cannot flood by receive a slow more may than it can handle. 2) UDP (user datagram (1)): It is an unreliable, conne lass (1) for appli - that do not want trais sequencing on blow control.	I TOP: divide the Processing bute them into

4) DNS: It is a decentralised naming . System used by the comp system to other olevices our the notion name into It translates the elemain name into I and & Ip and into domain name.	the say client Ends a mail to snur the say of mail unter the mail is successfully received by	3) SMTP: used for transposing the emails. It corks on store to forward model. cuithin the wrking of a newer this	by Its dient & Srvy Its makes an regst for warname & password for accessing the Srvy host.	transposing the web 785. 2) FT?: In ordr to perform file of FTP allows the wers to log into remote host.	Chassenate Chassenate
medium & carries the signals for all of the higher lays. I a provide the Services to date link lay. * Exportsibilities —	* hysical Layx: * lowit layr of the of model * Describes the obstrict of the mermanical	del	. Stands for aprilystms Stands for intriount. Hos 7 layes we usage Has 4 layes. St & low in usage mostly used horizontally approached	To add, It domain name is sufficient. The stated by This are Top & Model. * OSI model Top It Model.	of teplato thousands lays

