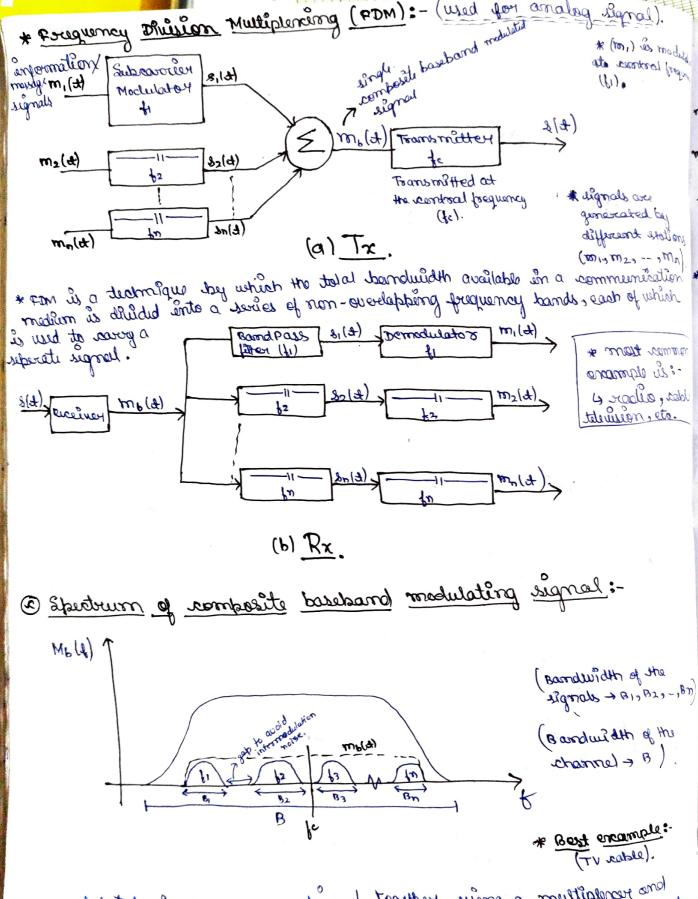
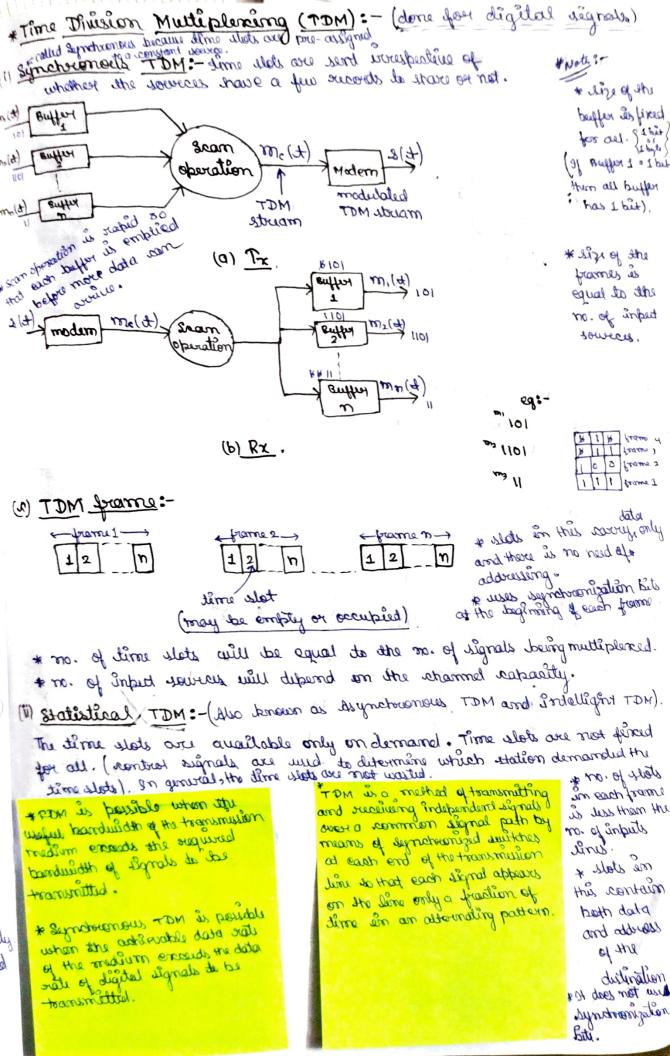
Signal and lines. Date: - 01/11/22 \* data-terminal \* Interfacing: Larent rateral quithour equipment of Draftal Data Transmission line DD Tr/Rx Ww Interface Tx/Rx devices includes terminals DCE: This surpossible to D D CE and reported one description of a few one of the surpossible to D CE terminal and the object of the surpossible to D CE terminal and the object of the surpossible to D CE terminal and the object of the surpossible to D CE terminal and the object of the surpossible to D CE terminal and the object of the surpossible to D CE terminal and the object of the surpossible to D CE terminal and the object of the surpossible to D CE terminal and the object of the surpossible to D CE terminal and the object of the surpossible to D CE terminal and the object of the surpossible to D CE terminal and the object of the objec DIE Modern resedences DCE DIE standards has been developed that specifies the exact nature of DIE. and DCE, such an interface has four important characteristics: @ Electrical. 3 Functional. ( Mechanical. 4) Procedural. \*Mechanical: - It defines the actual romnection between DTE, and DCE. thorough a number of cures. Thus, in through a 25-were early each of week the DTE of the DCE. In practice, for fewer interchange to the DTE of the DCE. In practice for the week meet the DTE of the DCE. In practice for the week meet the DTE of the DCE of the Same that we the same that the same through the property of the functions of the demands.

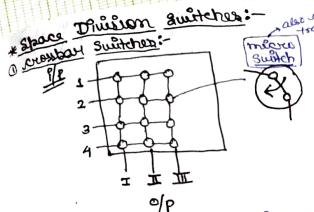
\* Functional: - It specifies the functions of the transfer of the demands. encitored. Etuera Esprandistre ja das et principara principara lastras, etab p saltitestranara board et bespecale ed mar larger laristals time primit state presturance for somewhat the enforce of the constructions to she hashes no earner per en positioned for beend and the hashes of the control of the proposition of the proposition of the production are attention and the production of the Date: - 03/11/23 established in a transferred of betwee superficient of its presentations \* Multipleneing:also streamed for essavel ett. muibers espirat a. row streament alab stream is honour as multiplencing and the hardware used for multiplencing tum mulbers at not, medoen ene evole at danger explus ou swite for to divided in such a way that each signal is given some portion of the \* elistrical specification: -depending on the function of the available bandwidth. sayanauny of surrent, the dutinical as represented the ora soulov derary or as contral algorals. more to them - 3, is interpreted as pinary 1, and a voltage mark positive them to volte is Intelligented as benary 03



demander residentiam a pnew techtopat herned mean ere stampic bitalubar ett north, homen manner ett revo bittimenaet si langis lenidman ett matt warmenset et et emente alab trubmedibre eleitum primuallo eurt hernedischer ett et ett ett ett laterature ere stampies ett to primitione ett to langis ett to langis ent para est to langis ett to langis ente paraser est langis ente paraser est langis ente paraser est langis.



Dati- 04/11/22 Advantages of Southburg: . Inocales the bonduite of selecome. \* Cht | Put Suitching: +switches aeriply · Loubbillia on booksow bisaubic. the backets, where · emovable the overall bedormans Trodes if and then ar or or asport of presumer you and transfers the , studiog Disodvantages: · Switch is more expensive train retwork bridges. \* Switches are when cannot determine the in/w hardware and or connectivity issues easily. tot wind proceetes interna peldagas ero temporary comunity. between two or may devices. (That are Unked to the switch \* Sammunisation Notwork: 1 Suntched Network. (when't suitch network, Package suitch network) @ Breadcoast Hetwook. ( Bus NIW, Thing NIW, short NIW). Les the sense of a survey of intertented rocks all a survey of the date of the date of the date of the survey of t \* Switched Network: . Instate to at beverfor at your stations. - strouted pariteting therook + a E G (n=11 \* suitching use following technologies: sething marking eagle 0 @ three division surferes. Had betorded to the function principle a is principled to the substitute the substitute the substitute of the substitute \* whome smitching involved thou phases: - O viscoult establishmand to be assumitted after the end to be to the manufactory on end-to-end 3 survered disconnect. information can now be transmitted from station to Hation. The data may be arraled or digital Afrey some period of data established depending upon the nature of the nationer terminated.



between ere timeres at patheren \* from each other shotfally

\* Initially disigned for analog newsorks, now it is being used for both analog one digital builtering. \* Major problem - cost (to account

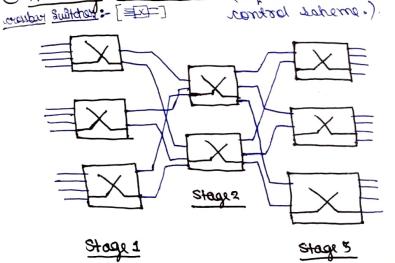
> multi stage switches is perferred &

, et used to comment a no. of anouts and Butputs, · Ho. of crosspounds = (no. of inputs x no. of outpeds).

\* NO Blockage happens since sufficient no. of arespoint are available.

\* The westpoons are Enefficiently willzed; even when all of the attached domin are adive, only a small fraction of the vouspoints are engaged. to de cross points grows with the no. of attached italians.

2 Mulistage spentsters - seatistem & spotsitum (2)



no termos at eldoleour speculo in mode. hoped to an outbut; that this may not be the come with a mutil per-stage stuftch. The beauter Lines indicate ones already in use.

\* Intermediate stages have entitude redetera p. on well than Inital and final stages. \* no of stages and no of to been defined moderna

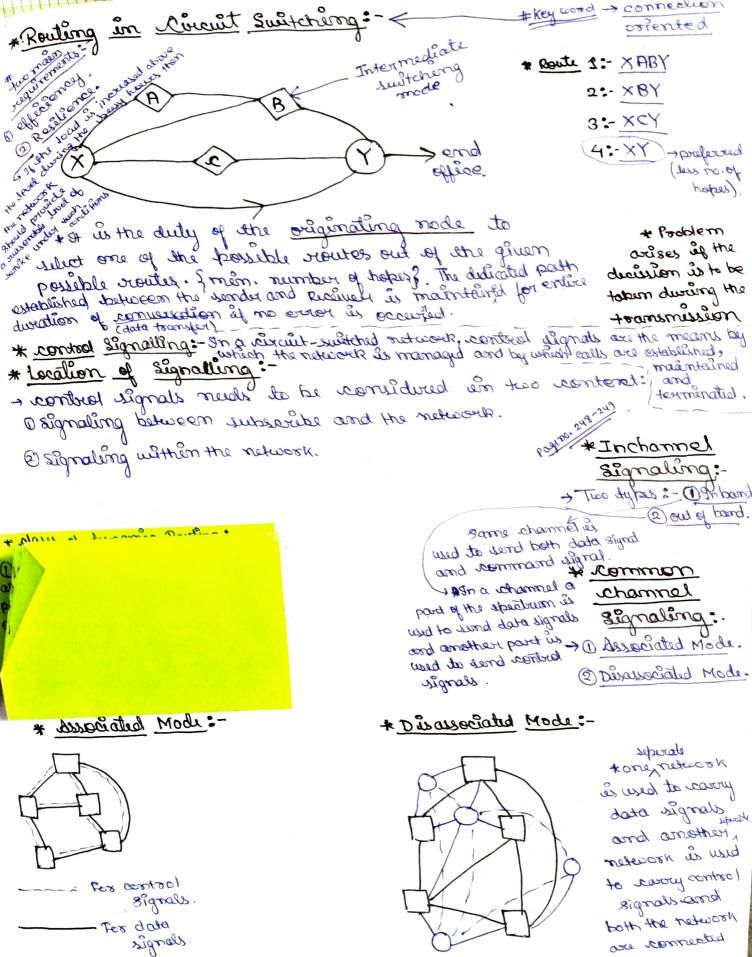
each stage stage 2 ax4x3 = 24 -18 224

{ 30 = drived electron lotor ? By using '66' waspoints we ran have "12" inputs and 12° outputs

35/ m using above, then the no. of exampoints = 12x12=144, more no, of waspoints, hence Mutherland substitutes and profunded?

Je tramplete ett temper nesterman nes ene is obstinet enede A stander one mart betterder a progress that the process is the tours of of signals between two and bounts. The basic building block of the suften is a metalia veresipaint or seniconductor gate that can be enabled and · time larthan a jud keldacil

a sa court price of each warmen potential or and time of the Date: - oglulaa sharing of crosspoints. crosspoints on not shared an ans of the constants \* Time Diwsian Switches: they can be showd in TDA. printetius grandia at (MAT) proseleptium missis errit sessi \* uses two methods: (127) Time ASON interchange (TSL) 2) Time Dhistorn Muliphoning Bus (TDH) Brown a higher- speed stream with other last stream ind billing on mater to be that \* Time Stat interchange: - Time State out interchange is a residence of the state o (TSI) OP Sources YP Bowier get beverlige ed man? 1-6 -[5] PCI tomoun as  $2 \rightarrow 7$ 6 2 1->5 Ð 3->5 I 13 ন্ত্র 4->8 4 computer the stant have the restantines. ( sentino landras) edt of phrospor . 4P A do al serious mat on stobarragos at Deguntially Olp f. stale enit newsp bellestras C Selectively  $\mathcal{I}$ to The RAM capacity must bellantras ram po ednoy go a Swith the halp of information hast the me (IST) frellesthouse et ou burole Time shits in the given TDM tak emit a privado bedri elamos a . a present trether ent at some ed years pramos 20 as tale smit travelib accomodate the given Home etals. (2) TDM BUZ: spropressent time of many 1-3 rellextras with blowing (IDM). 374 OP en Abunt buffer rationation to \* neutromreful ente at positoressos beeals rellordness of his breate 40 \* En a TON Bus, data or information around from an ampet line is put onto end beech affer one stallount sufaceche 40 \* To respo with the growing demands on bublic telecommunications was, Bus an provi dues have mound away from \* signaling fundions: the static bigranatical approach propor early clarge socretar asperts of network behavior, reducting both retwork services and A. description airrange of dynamic approach is one in which youting dialians are influenced by



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\* Dala: - 13/1/22 \* Hements Routing:-Destermana voitoria: · No. of haps . Delay. · Thorough bad. ( should be minm) ( mon poper/vales) . Docum Tirese: Packets (datagrams). (timesia lautin) raises. to begins a source was discool of the waiting dicision is taken miliary for each and overy street printellables for write out to paobel. Deasian Place:-\* oraginaling node (source) \* contral side. +each neds. (<u>bzilootous</u>) (anterprint) ( howers Information Source: ( Bound on the solology, what topology is used) (traffic) load, in rest of wind). > HORR. · Local. regiones esoge. · stuar grade abon < > ATT Logis. Hotward Information update imangi- Jupidate timing abouteagy?. duanitars . Mount bod starge. ( \*\* a bush to band .) ( \*\* a boutenday informed). · hourse registible about formoral). \* Per a final strategy, the information is never updated. of emile as prignants at thebe at natural predicts we were stand

Strategies: (Boud on the no cardition, if the xouting was a country of the state of (grition substance in the button son, expenses). 3 Adaptive. Hon

DERED ROUTING

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eldo lux à ma lisa son 4 boal aldelco His Seconar diado: + tack of Horability.

at team ter up a network compation of wellof

@Flooding.

· other than incoming limb, but is forwarded stril prispus le at Board on Non-Adaptive Routing) means A backet is writ ph o roma was p emil on of it's neighbors Packed must have some tert as resistantic upon the broads decoard all but the first capy. le exportant religion le q

field with each back such frequently it is enablinged, Lime a nede posses on a packed, it decrements the Otheraku . are jud browen eth, and behaligh bruess ported is discorded

\* Advantages .-

Adaptiv

+ Gronales Andormand \* can ad to conjution control (Raturaing lead).

\* Disadvantagez: malipras at book years 12(1) (1) Realing decision is using complex, beauti diawien briospadd one to medat au into is adulted from amother place.

The move info. that is evertanged, and movel trations prilipse each made Takes. on the other hand, this injut where book a flore it it. P BTHELE , documen hodomana depodition

Date: 17/11/22

\* View Swidizability:-

+ Seri