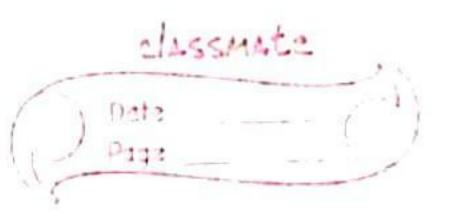
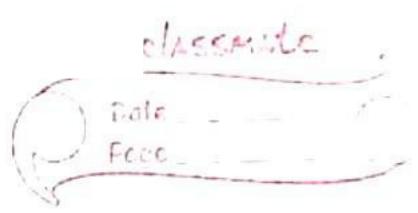
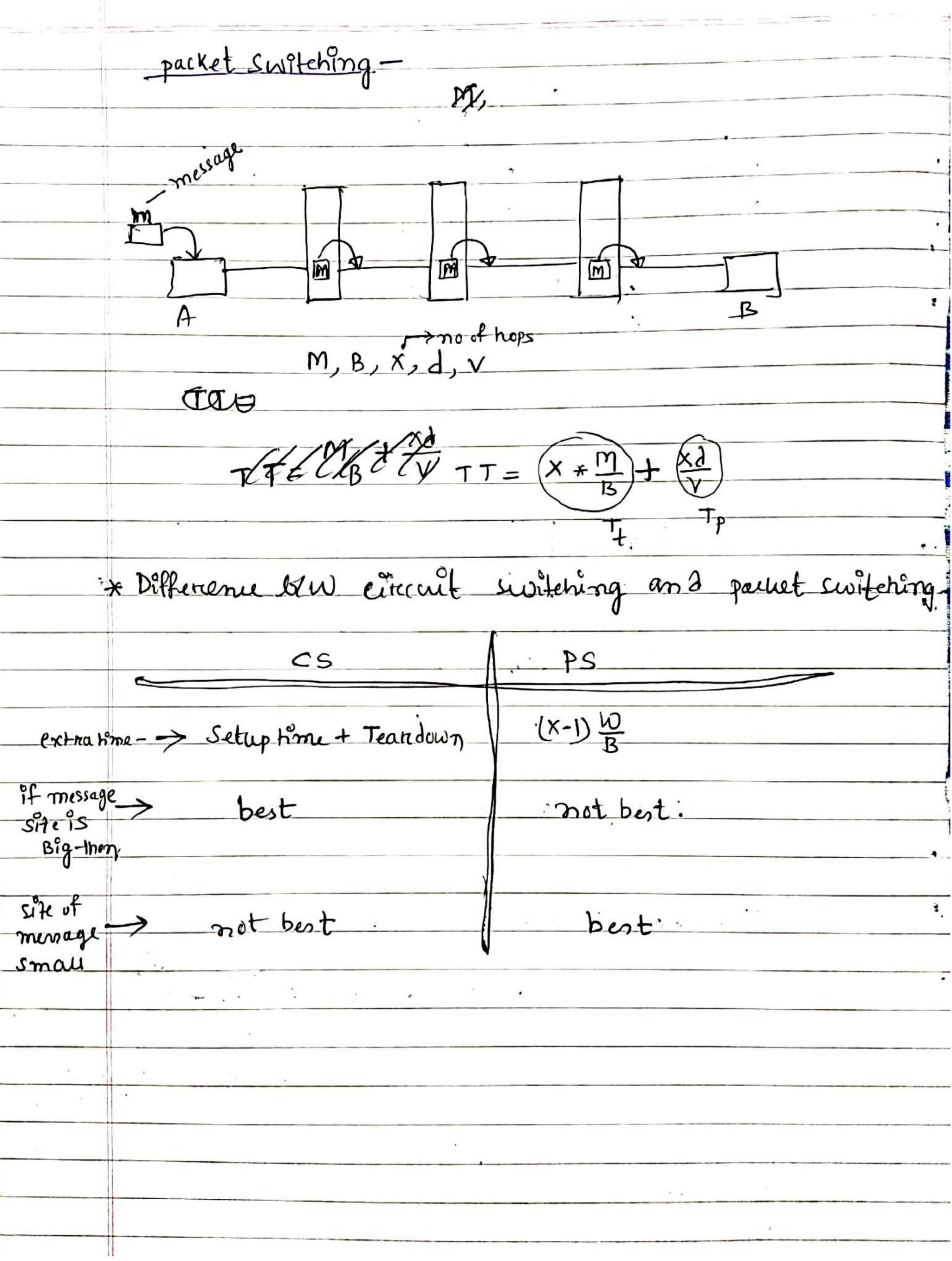
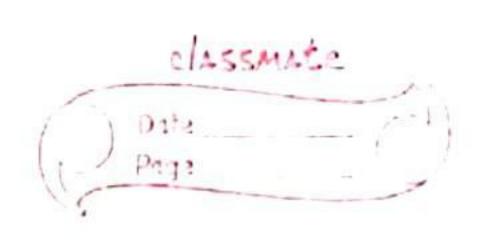
Switching



	St Swithing		
	Circuit packet message switching switching switching		
	viktual patagream Switching		
	Circuit switching -		
	Petrsony 100-A-B		
•	M-Message, BW, X-hop, a-each hop distance, v-velocity.		
	Total Home to transfer a merrage. TT= setuphime + (M) + (Xd) + Tea Tt TR Transition propagation		
	(1) no fleaderes required. (Which direction to go) (2) No reordering. (3) It is applied at physical layer. (4) It is Obsolete (no one un it now).		





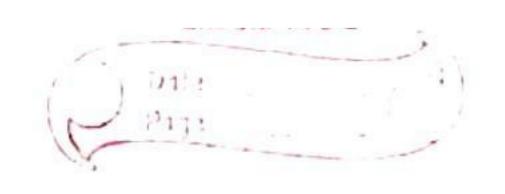


	En Ex: Data=1000Bytes.
	BW = 1 MBPS.
	= 10 BPS
	Headers = 100 Byte
	total time to transmit data StoR.
	Tracket !
	Sylvery (X) Theo (X)
	Packet size = 1000 + Headere $T_1 = \frac{PS}{R} = 1.1 \text{ msee Home}$
	(PS) = 1000 + 100 to Gend
	-11:00B
	TT=3*T++TP
	$= \frac{PS}{2} + 0$
•	$\frac{13}{3}$ $\frac{13}{BW}$ $\frac{1}{2}$
	$=3*^{1100}$
	= 3 * 100 \$ = 3.3 m see hime taken to un 2 Dato
	THE STATES
	when,
	No. of packet=5
	Data per paillet = 1000 = 200 Bytes.
	BW= IMBPS
	Headen=100 R.
:	Painet site = 200+100 = 300 Bytes
	Tt = PS = 300 = 0.3 m See one packet.
	106 one parket.
	3 3.
	(S)—(S)—(P)



· applyed pipelining-I pauset time taken = 3×Tt = 3×0.3 = 0.9 mue TT = 0.9 + 600 1.2 = 3000000 (2.1 mere) + time taken to send I to R. when partit = 10 SOCKEX # Data per parket = 1000 = 100B 10000 Packet size = 100 + 100 = 200B pipeling applyed - $3 \times T_L = 3 \times \frac{200}{10.6} = 0.6$ msee. = 9 x T_t = 09 x 0.2 = 002000000 TT= (0.6 + 1.8) msee = (2.4 pp, mue 000001 EX; paiket=20, Data pen paiket = 50B PS= 150B ... Pipleling applyed - 150 = 10000000 0.15 mm x3 I paint = 37 T_t = 3 * 106 = 100000 0.45 mm = 19* Tt = 19# 0.15 = 2.85 mue

PAR



TT = (0.45 + 62.85) msee = \$2800 3.30 mree

-	D=1000	Data divide unto no of parkets		
	1000	+ no of packet	Piple lining_	Total 19me (TT)
	1000	1	NO	3.3 mile
	1000	<u>~(5)</u>	yes	2.1 "
•	1000	10	Yes	2.4 //
	20	20	Yes	3-30 /

•	·	
	Viretual circuit (vc)	Datagram (Dg)
•	5	
	31	
	777	> e-mail going through Dg.
headerc:	> 1st parkets, belober header neg.	-> Headers treg fore au
	Other " reader reg.	the packets.
Comertin:	Buffen, CPU, BW, Resenved s	> NO resenvation.
-	It is connation oriented.	so it is connerher
•	-> Same bath -> morder	lers.
	-> Same path -> morder follow	-> may follow diff path,
		possible.
	-> highly Reliable.	-> Not reliable.
	-> highly Reliable. -> er very costly.	not very coetly.
	Exo ATM-network.	Ex: 1P-Netwonk.