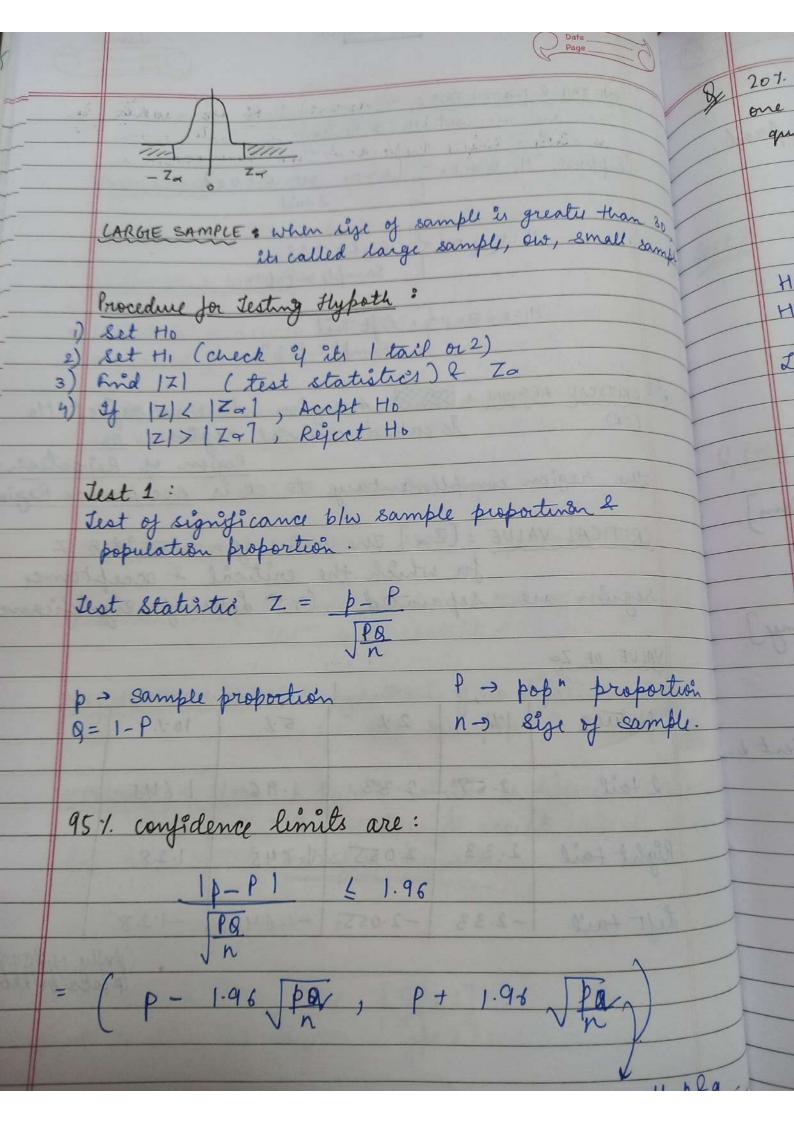
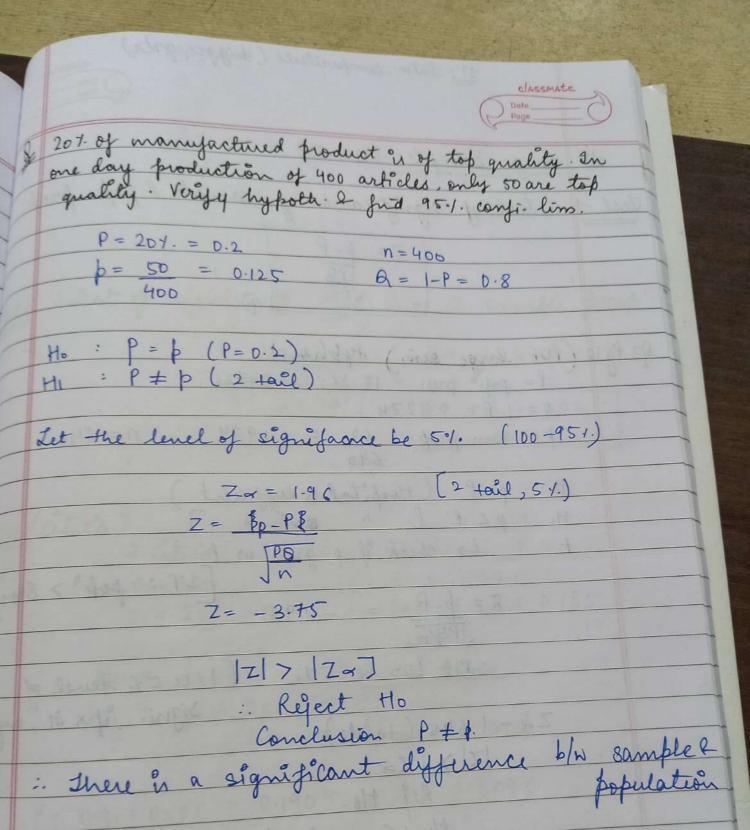
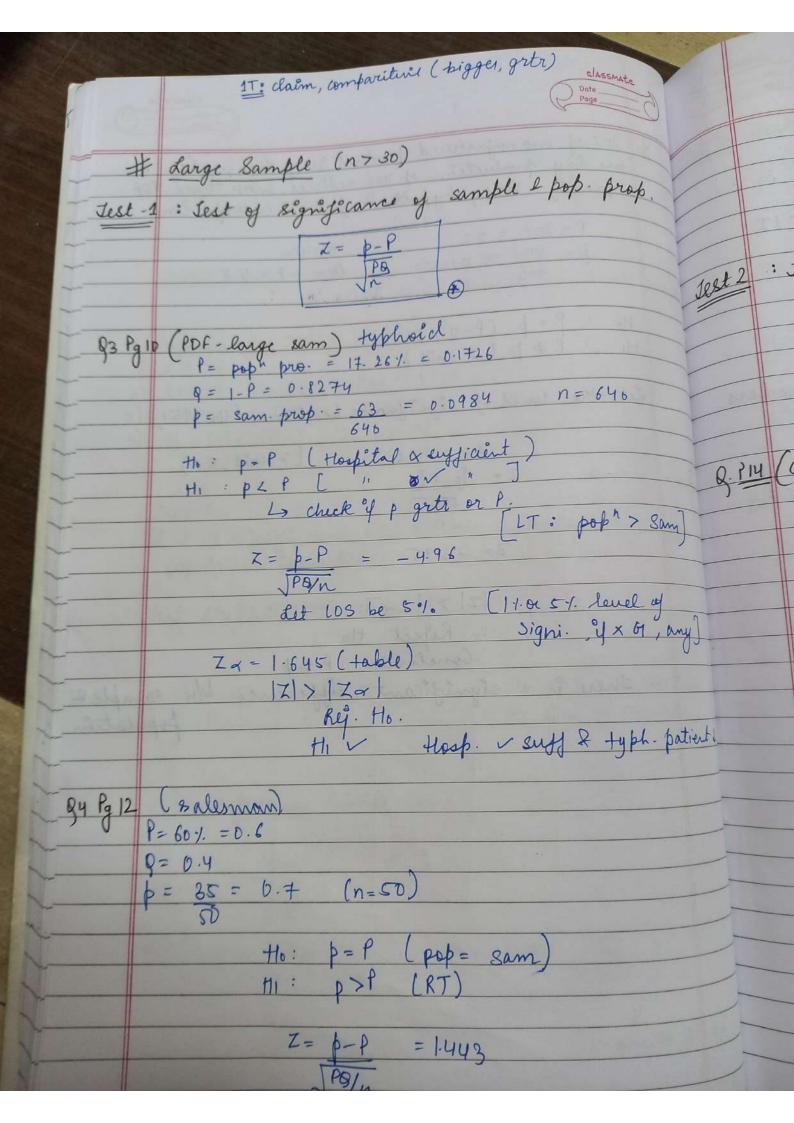
Jesting of Hypothesis [Sampling] POPULATION: collection of individuals SAMPLE: A finite subset of population PARAMETER & STATISTICS : · Statistical measures calculated on the basis of population are called parameters (mean u, var o²) • Statistical measures calculated on the basis of sample are called statistics (mean x, var s2) · A sample statistro is denoted by 't? SAMPLING DIST" ? The ploty dist" of a statistic't' STANDARD ERROR: The standard deviation of the Sampling dist " of a statistic. NULL HYPOTHESIS (Ho): A hypothesis of no difference (10; no diff b/w pop n & sample). ALTERNATE " (HI): A hypoth. which is different from He is A procedure to accept / riject rull hypoth. is called Testing of hypoth. TYPE 1 & TYPE2 ERRORS : Reject Ho when its true [Type 1]
Reject Ho when its false [Type 2] [Type 2]

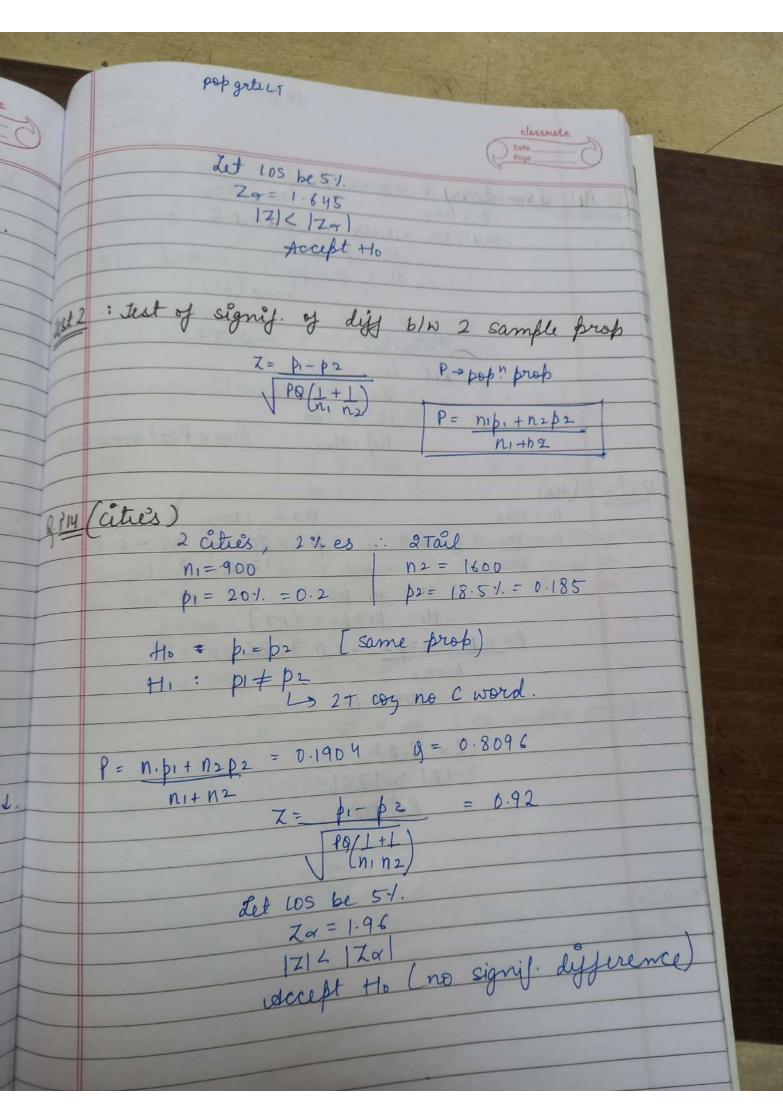
Pop>sam LT ONE TAIL 2 TWO TAIL TEST: Set Ho: 0 = 00 Suppose, Hi = + 0 , (8>8. OL 0480) 2 tail H1:0 > 00 | Right Tail Sample > Popn HI:0200 & Lift Tail Sampl 4 Pop". (CR) REGION: A region where we reject Ho
is called critical region. or
Region of Rejection. The region complementary to ch is scriptome Region CRITICAL VALUE: [Zx] The value of a statistic Z

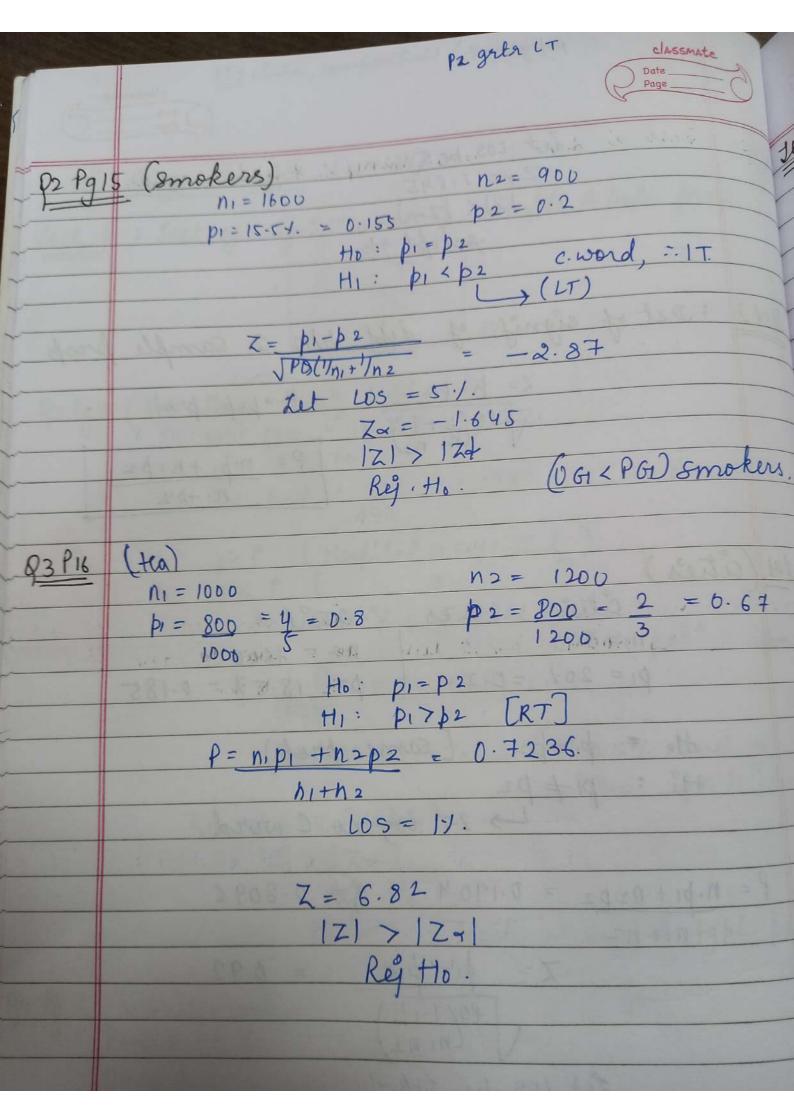
for which the critical & acceptance region are separated (9 - Level of significance) to fatty, visione VALUE OF Za 10-1. 21. 1%-1 Nature 1.645 1.96 2.33 2.58 2 tail 1-28 1.645 2.055 1.33 Right tail -1.28 Consly 14 Stylan -1.645 -2.055 -2.33 Left tail

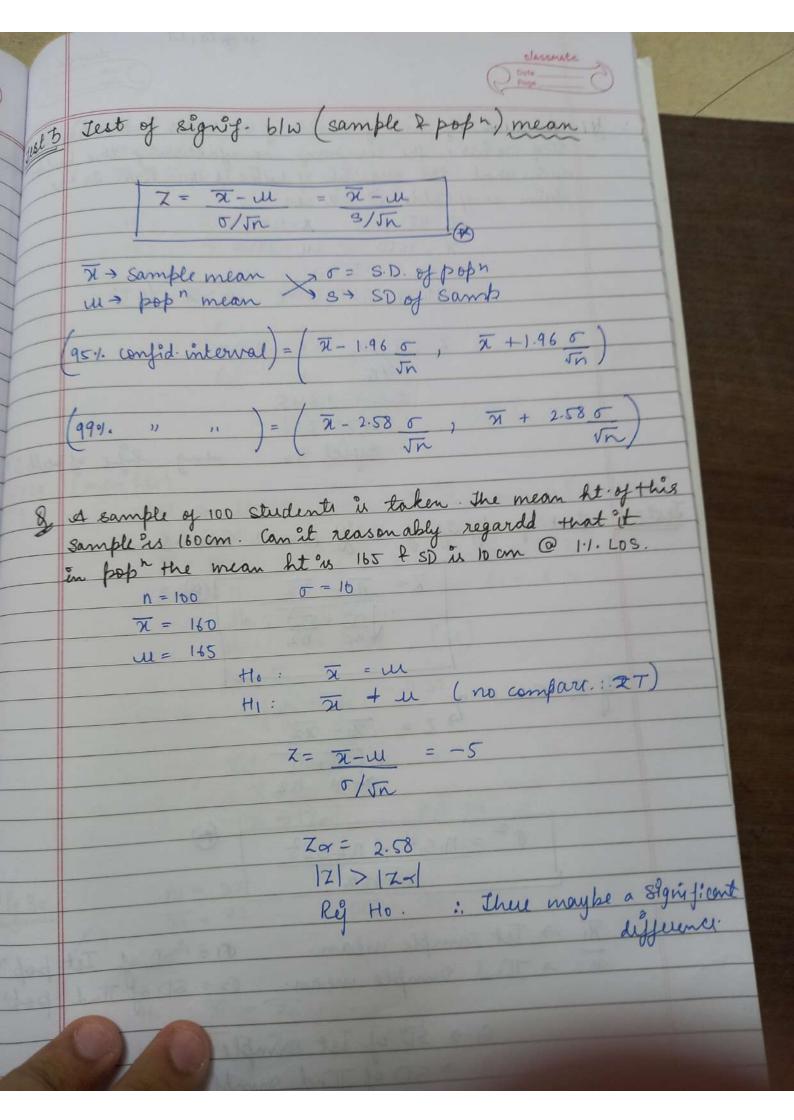


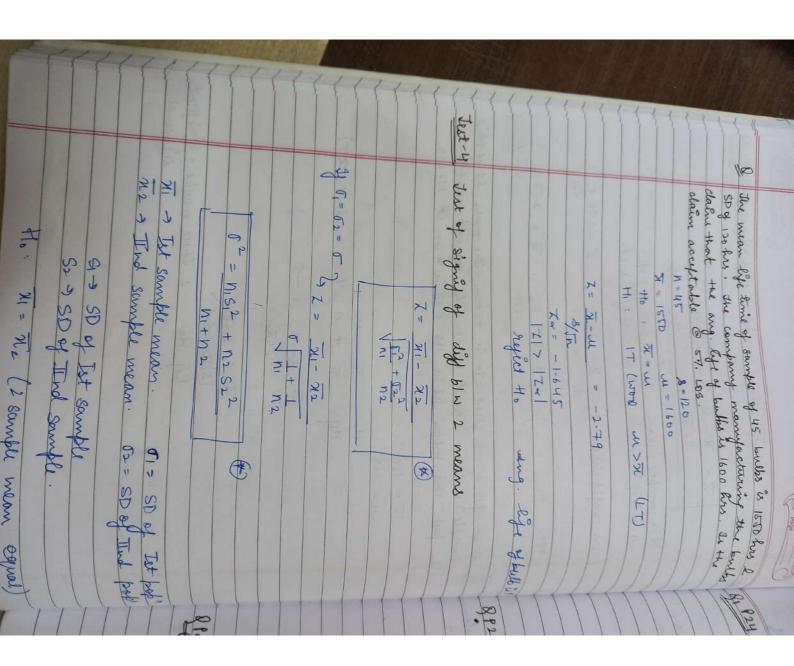






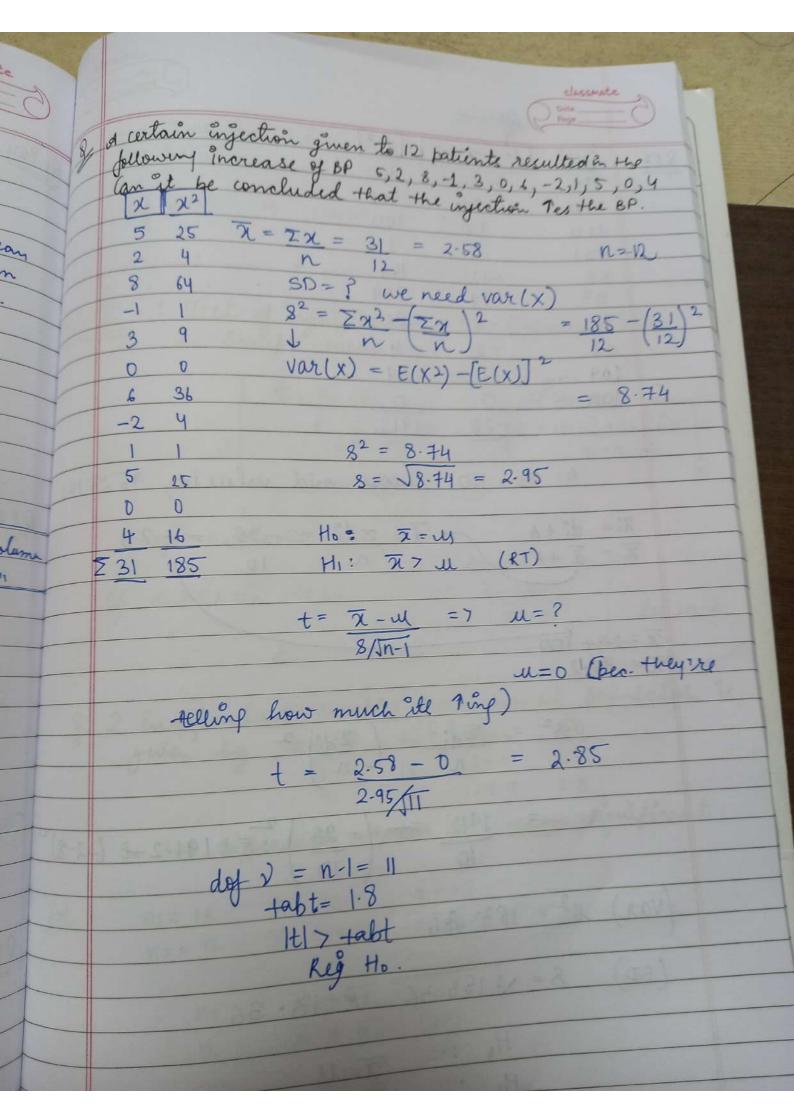


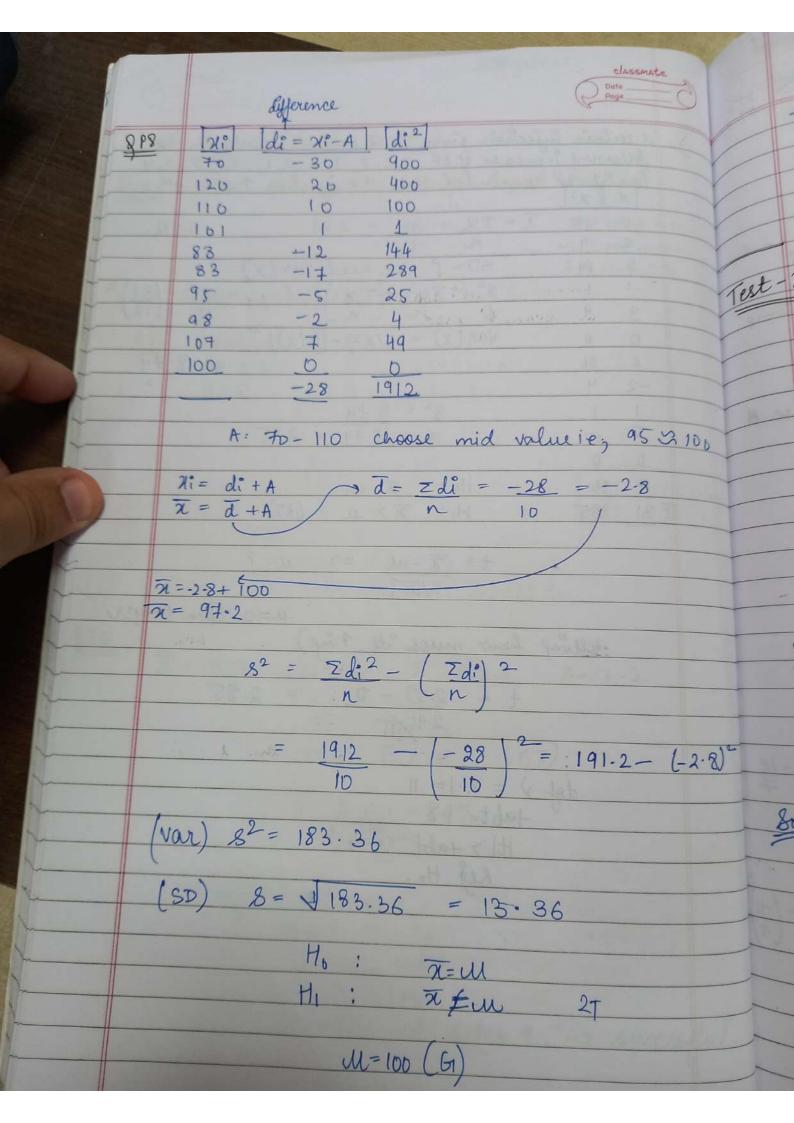


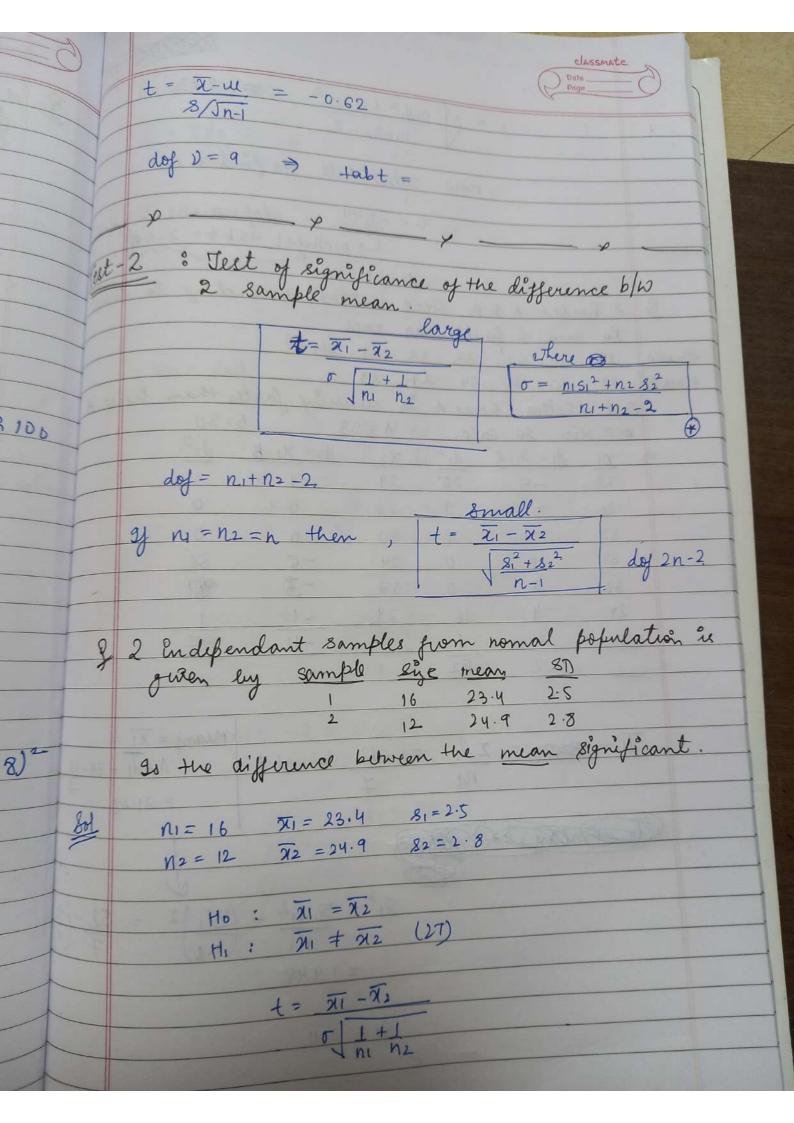


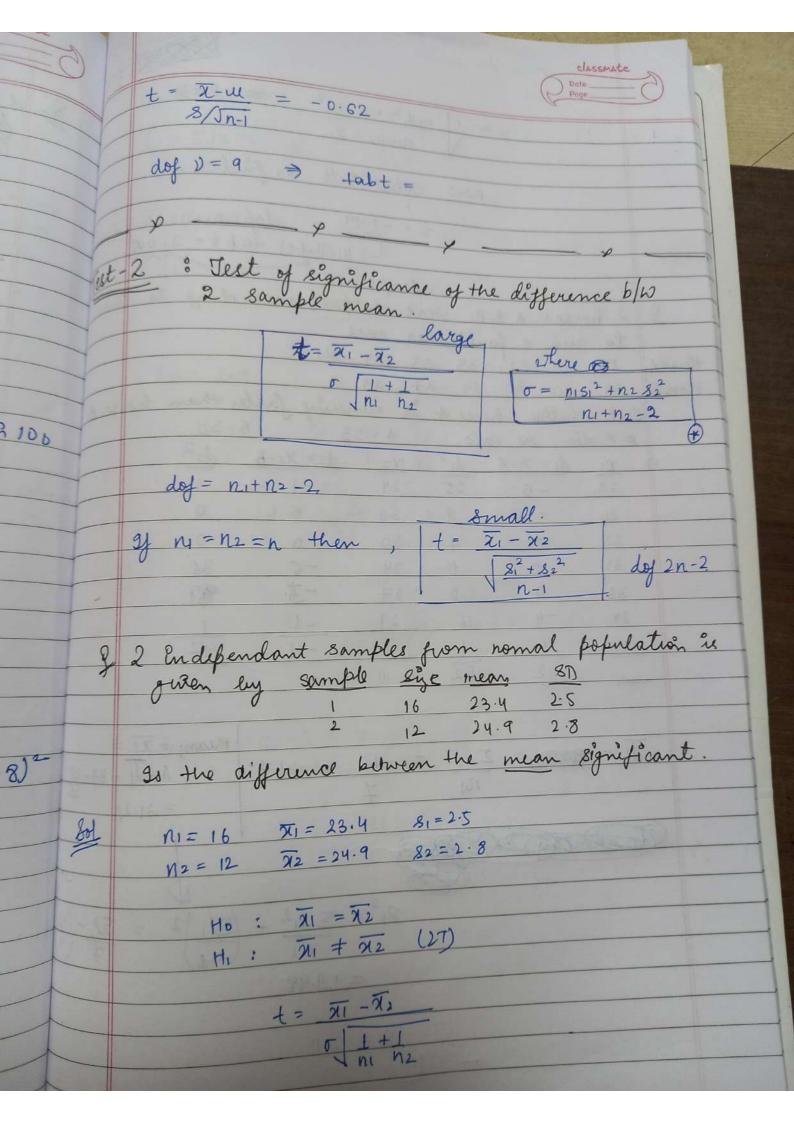
pab.	1430					MASS IN SOME	16.11:	4				2	t min		assmute 1
村: 21 - 32 [RT]	$N_1 = 32$ $N_2 = 36$ $N_1 = 42$ $N_2 = 36$ $N_1 = 42$ $N_2 = 36$ $N_1 = 8$ $N_2 = 6$	12171201 Reg-Ho.	$\frac{7 - y_1 - y_2}{8^2 + 8^2} > 11.32$	Ho: 71 = 72 [LT]	000 (eng men) 2 = 14-2		121>124 3 Ruf Ho.		0 1+ 1 (N: N>)	1=1	H: 91 + 712 (2T)	H1: 71- 72	67.5	(moher)	Ne guth LT

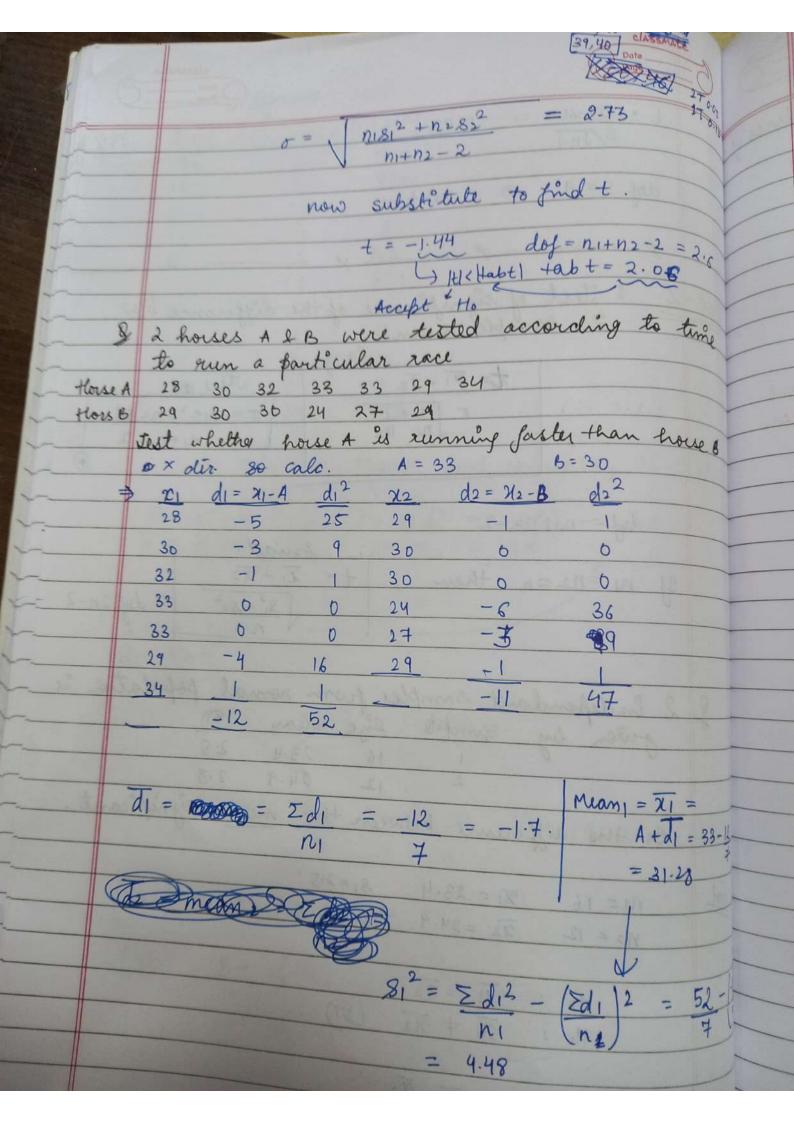
1 34											
-	# Small Sample (n 130)										
	1 3 Test of signif of sample & pop win										
	- 11 7 300mb										
	$t = 2 - Ul$ $8 \rightarrow \text{sam. sp.}$										
~- <u>-</u>	· degree of freedom Y= n-1										
&	12 (machine)										
·-	$\mathcal{U} = 0.025 \qquad \mathcal{U} = 0.029$										
	$n=10 \qquad 8=0.02$ $M_0: \overline{u}=u$										
_	H1: \(\frac{1}{2} \pm \)										
	$+ = \bar{x} - u = -1.5$										
- 1000	8/Jn-1 2T 0.10 E										
-											
	dof y = n-1=9 +abt = 2.26										
	It L tabt Accept Ho.										
	THE SER LIE										
&P5											
-	$\mathfrak{Z} = 146.3$ $n = 22$ $\mathfrak{I} = 153.7$ $8 = 17.2$										
	40										
	th: 7 = u										
	HI: TOU (RT)										
	4 - 70 11 - 10 - 10 - 10										
	$t = 2 - u = 1-97$ $8/\sqrt{n-1}$										
	7 NN-1										
	$dof \ \)=n-1=21$										
	$dof \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$										
	HI> tabt										
	POS H										
	Rej Ho After ad, sales 1, : 1 successful										
	my and, sales 1, 1 success										











for small sample coult table Value are same chasante for Ind sample, $\overline{d}_2 = \overline{Z}d_2 = -11 = -1.83$ 21 = mean 2 = B+ d2 = 30-1.83 = 28-16 .6 $82^{2} = Var = \sum_{n=1}^{\infty} \frac{dx^{2}}{n^{2}} - \left(\sum_{n=1}^{\infty} \frac{dx}{n}\right)^{2} = \frac{44}{6} - \left(\frac{-11}{6}\right)^{2}$ = 4.47 82 = 2.11 Ho: $\overline{\chi}_1 = \overline{\chi}_2$ H₁: $\overline{\chi}_1 \ 7 \ \overline{\chi}_2$ (RT) $\sigma = n_1 s_1^2 + n_1 s_2^2 = 2.29$ n1+112-2 $t = \overline{\chi_1} - \overline{\chi_2} = 2.24$ $\downarrow I + I$ $n_1 \quad n_2$ $doj = n_1 + n_2 - 2 = 7 + 6 - 2 = 11$ fabt = 1.80 1tl> (tabt)
Rej Ho (A7B) House.

