

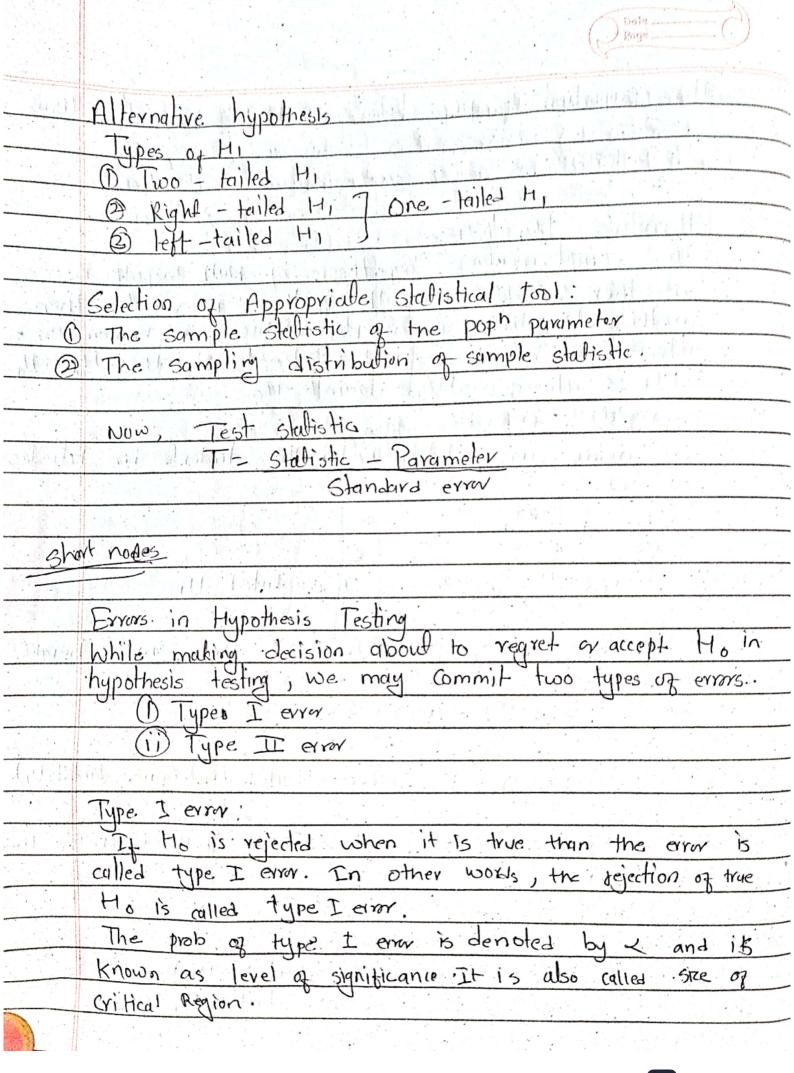
3 The Proportion of pass students in NCIT is greater than Ho & P=0.6 # Alternative Hypothesis: The complementary hypothesis of Null hypothesis.

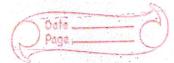
In other woords, If null hypothesis is rejected then another hypothesis is accepted, which is known as alternative hypothesis. It is denoted by HI or HAWH, HI is always states against Ho Example: The mean score obtained by the students in steelistics difference is 72.

Ho: 4 = 72 Difference VS

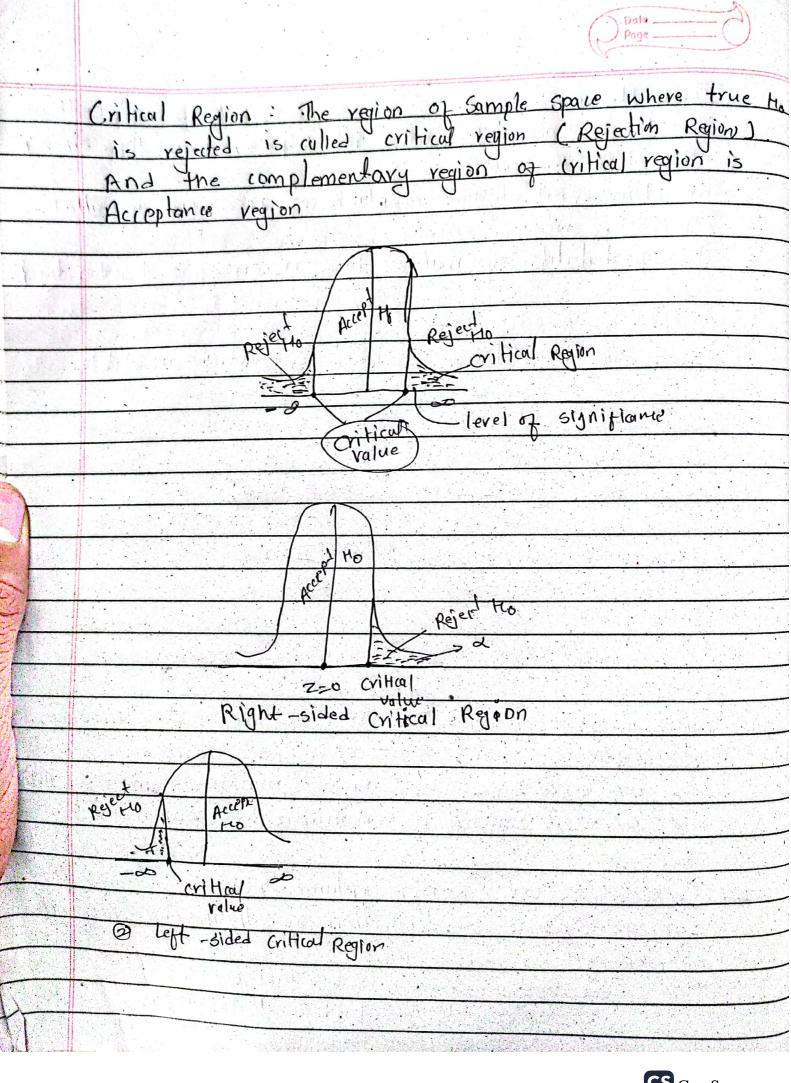
Difference H,: 4 72 => Two-tailed H, @ Mean height of girls is less than mean height 0 t boys Ho: 4; = M2 HI: M, ZM2 (Left - tailed Hi) (onc -tailed Hi) 3 The proportion of pass students in NCIT is greater thun Ho: P = 0.6 M1: P>0.6 (Right - tailed H1)

(one - tailed +1,)





71	type II error:
	then the error is
	called type II. error.
	In other words, the acceptance of talse Ho, is called
	type II error.
	The probability of making type II error is denoted by B.
	Errors in Hypothesis testing Presented in table.
	Statistical Actual Situation
	Decision Hois true Hois tube
	Reject to Type I ever Correct decision (1-12) & power of lest
	Accept the Correct Decision Type II error  (1-a) (B)
Y A	confidence
	Note:
	The impact of type II error is more of dangerous
	or harmful than that of type I erm.
	For fixed &, we try to minimize the B. Sinu
	2 and B cannot be minimized simultaneously.
-#	Critical Region And Acceptance Region
edla and	Sample space: The collection of all the possible values
	of test statistic
1.	





One tailed test and two -tailed test A hypothesis test is said to be one -tailed test it one one-tailed this used Similarly by Internet it survey by the internet A hypothesis test is said to be two - tailed test it two tailed His used. Example Ho: M = Mo, where Mo is assumed value of M H,! u = Mo (Two-tailed test) Hi: M > Mo (Right - tailed test (one - tailed test)

Hi: Me mo (left - tailed test) one - tailed test Gieneral Procedures for hypothesis testing.

Step 4: Setting hypothesis:

Ho: Do U = 400 (N, M 7,40 N M (40)) H: M = Mo (or, two - tailed test)

H: M > Mo (one - tailed test)

H: M < Mo (one - tailed test) Step 2: Identify the sample statistic and it's sampling distribution Step 3: Test stabistic

Under Ho, The test stabistic is

T = Statistic - Parameter (Assumed) 5 landard Erm

