## Ch# 10 Hypothesis testing

 $\pi = \text{Mean of Sample } S = \text{sample std}$  u = Mean of pop 6 = pop std

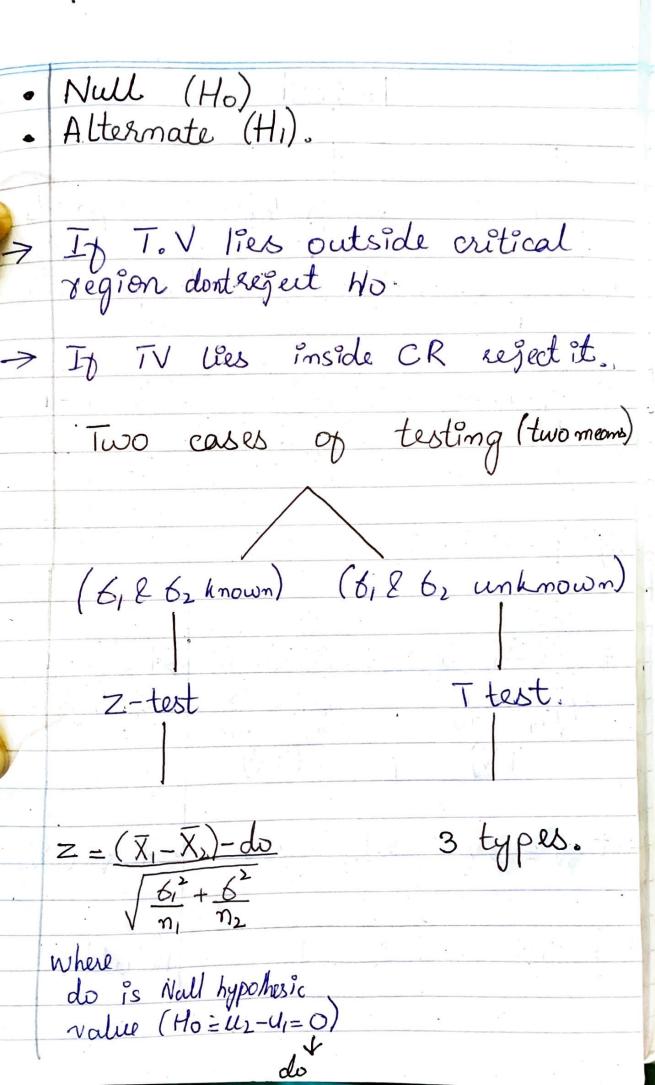
Ztest

pop std (6) known Vice versa.

n 2.30

Ff 6 in unknown

and n < 30



T- test pared pooled non pooled ·dependent · S1 08 S2 HW 1-2  $\begin{array}{c|c}
S_1^2 + S_2^2 \\
+ N_1 + N_2
\end{array}$   $\frac{\left(S_1^2\right)^2 + \left(S_2^2\right)^2}{m_1 - 1} + \frac{\left(S_2^2\right)^2}{m_2 - 1}$  $\Rightarrow \gamma = \eta_1 + \eta_2 - 2$ > )= m-1 > d = mean > Sd = std deviation  $\Rightarrow Sp^2 = (m_1 - 1)S_1^2 + (m_2 - 1)S_2^2$  $(\underline{x}^1 - \underline{x}^2)$  $(\overline{\chi}_1 - \overline{\chi}_2)$  $\Rightarrow$  t =  $(\overline{X}_2 - \overline{X}_1) - do$  $SP\sqrt{\frac{1}{m_1}} + \frac{1}{m_2}$  (TV) $\frac{\sqrt{S_1^2 - S_2^2}}{\sqrt{m_1} \sqrt{N_2}}$ >t <, > = CV >ta, = CV >ta, v=CV > Result Result Result.