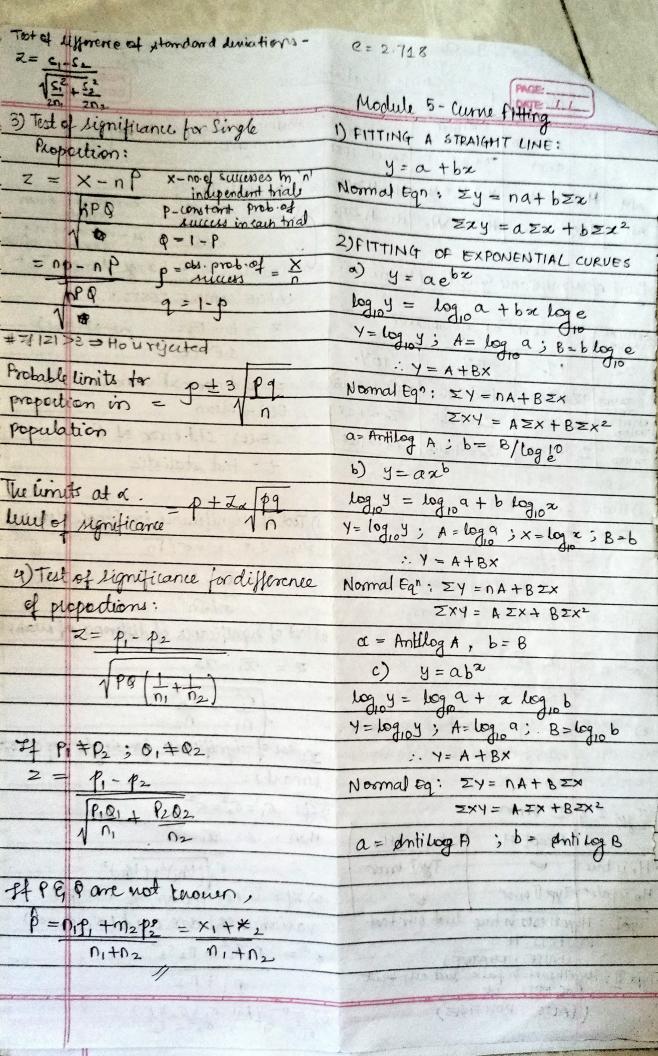
For left to led tot > T+ Bun 220 6-s.o.of population zegle zeab, then Ho is tyceted sorple PAGE: __ Som- unatabect Module - 1 DATE -L CONFIDENCE = 7 ± Z 6 RIGHT 2 TAILED LEDIT INTERVAL TAIED TEST TAILED TEST TEST Ho M= Mo HO. MEMO NH Ho: M = Mo Test statistic, X= mean of given MA $z = \bar{x} - \bar{H}$ Ma M& Mo Ha: M Mo Ha: H< M. sample M- muan of reg. 0/50 sample (100 lulota Limit of significance & hitical, value: - harge sample Test Module - 2 LARGE SAMPLE TESTS : CRITICAL VALUE LEVEL OF CIGNIFICANCE z = t - E(t)~ N(0,1) Za 1.1. 5% S.E. (t) 10%-12 = 2.58 2 TAILED 12x = 196 z=std.normal variate 12x = 1.645 RIGHT Zx = 2.33 E(t) - Mean Zx=1.645 Zx=1.28 TAILED Zd= -2.33 S.E.(t) - Std. error of t Zx=-1.645 Zx=-1.28 t - test statistic PRERERUSITES : 1) Mean: Ang. of Data X = # xi 1) Test of significance for Single Mean: Here, S.E.(+)=0/50 2) Variance: Sum of squares of difference -. Z= x- H believen all numbers & mean. 0/50 2) Test of significance of difference of man: 52 = 12 (X; -X)2 マニマノール 6, + 62 3) Standard : square root of vorionu. Measure of extent to which data vories 3) Test of significance for single proportion from the mean (6) Remarks: Type I & II errors: 1) If: 6,2=62=62 then - Z = \$\overline{a_1} - \pi_2 Accept H. Reject Ho His true Type I mos 6 (1/n1)2+(1/n2)2 Ho istalse Type I error 2) If o is not known, & sample lux our test varianus (5) are used (5,-5=5) TypI: Hypethesis is true REJECTS 14 62= n,8,2+n252 Type T: Hypothesis is false but our fest Accepts it 3) -w (But 5, \$62 + 5) 6,2 = 5,1 ; 62 = 52 (PALSE POSITIVES)



e-ro-d behavior

Module 6- torrelations legression DUE LL Kart feariors cofficient of carrelation: . REGRESSION .) line of regression of y on x: T = COV (X, Y) (OV(X,Y)=Z(X-X)(Y-Y) $y = a + b \infty$ 62,531 y-y= 8 69 (2-2) Y = Z(X-X)(4-4) 6x = \ \ (x - x)2 12(x-8)2 (24-9)2 : y-y = byx (x-x) Y = Exy - Exzy e) hine of regression of a ONY: a= a+by gg a-n = 686x (y-y) r = Idady - Ida Idy : x-x = boy (y-y) Zd2-(Zdx)2 Zdy2-(Zdy)2 Expussions for Regression Co-eff: Properties: 1) by $\alpha = \sum (x-\bar{x})(y-\bar{y})$ 1)-14841 Z(X-X)2 2) If x & y are independent; boy = Z(x-x)(y-5) CCV (X, Y) = 0 Buying L. S. H. Z(4-4)2 Ranki correlation: byn = Exy - Exzy 9 = 11- 6 Zd2 N3-17 Σχ2_ (Σχ)2 d= 2 - y = Zd = Z(x-y) = Zx-=y=n(x-y)=00 Related Ranks: $l = 1 - 6 \left[\frac{1}{2} d^2 + \frac{1}{12} (m_1^3 - m_1) + \frac{1}{12} (m_2^3 - m_2) \right]$ in the supplied to a set 103-17 (b) 17 (160)

m-no-of items having equal ranks.

