$$Z = \frac{\overline{X} - \mathcal{A}}{\overline{V}_{n}} \quad \overline{v} : \text{ s.d. of } t = \frac{\overline{X} - \mathcal{A}}{\overline{V}_{n}}$$

$$Z = \frac{\overline{X} - \mathcal{H}}{\sqrt{n}}$$
, N is finite no.

$$= \underbrace{\times - \mathcal{H}}_{5}$$

where
$$s^2 = \int_{1-1}^{\infty} (x_i - \overline{x})^2$$

$$\overline{x} = \int_{1-1}^{\infty} x_i / n$$

2. Diff. of Mean
$$Z = \frac{\text{Sample 1} - \text{Sample 2}}{\text{Mean}} + \frac{X_1 - X_2}{\sqrt{\frac{S_1^2}{n_1} + \frac{S_2^2}{n_2}}}$$

$$Z = \frac{\overline{X_1} - \overline{X_2}}{\sqrt{\overline{U_1}^2 + \overline{U_2}^2}}$$
 9+ \(\sigma\) thown

$$Z = \frac{X_1 - X_2}{\sqrt{\frac{5_1^2 + \frac{5_2^2}{n_0}}{n_0}}}$$
 if o is unknown

$$Z = \frac{\chi_1 - \chi_2}{\sqrt{\frac{5_1^2}{n_1} + \frac{5_2^2}{n_2}}} \quad \text{if } \sigma \text{ is}$$

$$\text{unknown}$$

$$\sigma_{Z} = \frac{(X_{1} - X_{2}) - (M_{1} - M_{2})}{\sqrt{\frac{\sigma_{1}^{2} + \frac{\sigma_{2}^{2}}{n_{1}}}{n_{1}^{2} + \frac{\sigma_{2}^{2}}{n_{2}}}}}$$

or
$$t = \frac{\overline{x_1} - \overline{x_2}}{5\sqrt{\frac{1}{n_1} + \frac{1}{n_2}}}$$

with d.f. v=n,+n2-1

where $2 = \sum_{i=1}^{\infty} (x_i - \overline{x})^2$

 $4 S_2^2 = \sum_{i=1}^{n} (x_i - \bar{x})^2$

$$s^2 = \frac{2}{12} (x_1 - x)^2 + (x_2 - x)^2 \frac{OR}{S} = \frac{(n_1 - 1)s_1^2 + (n_2 - 1)s_2^2}{n_1 + n_2 - 2}$$

3. Proportion

S. E. of proportion

$$= \frac{\hat{p} - p}{\sqrt{\frac{po}{n}}} = \frac{1 - p}{\sqrt{\frac{po}{n}}}$$

$$Z = \frac{\hat{p} - \hat{p}}{\sqrt{\frac{pg}{N}} \cdot \sqrt{\frac{N}{N}}}$$
 Nis finite no.

4. Diff. of Propostion
$$Z = (\hat{P}_1 - \hat{P}_2) - (\hat{P}_1 - \hat{P}_2)$$

$$\sqrt{\frac{P_1 \cdot P_1}{n_1} + \frac{P_2 \cdot P_2}{n_2}}$$

where
$$P_1 = \frac{x_1}{n_1} = \frac{\text{favourable}}{\text{Total}}$$

$$P_2 = \frac{x_2}{n_2}$$

9f P1=P2=P Prob of success is equal for both object then

$$Z = \frac{\hat{P_1} - \hat{P_2}}{\sqrt{\hat{P_1} + \hat{P_2} + \hat{P_1} + \hat{P_2} + \hat{P_2} + \hat{P_1} + \hat{P_2} + \hat{P_1} + \hat{P_2} + \hat{P_2} + \hat{P_2} + \hat{P_1} + \hat{P_2} + \hat{P_2} + \hat{P_2} + \hat{P_1} + \hat{P_2} + \hat{P_1} + \hat{P_2} + \hat{P$$

$$t = 9.\sqrt{n-2}$$

$$\sqrt{1-9^2}$$

gn is observed correlation

P is population correlation coeffi-

Mull H+PO: 12 = 0

Hi: P + 0 or e>0 or Pco

Here d. f. 19=n-2

$$Z = \frac{P_1 - P_2}{\sqrt{\frac{P_1 P_2}{n_1} + \frac{P_2 P_2}{n_2}}}$$

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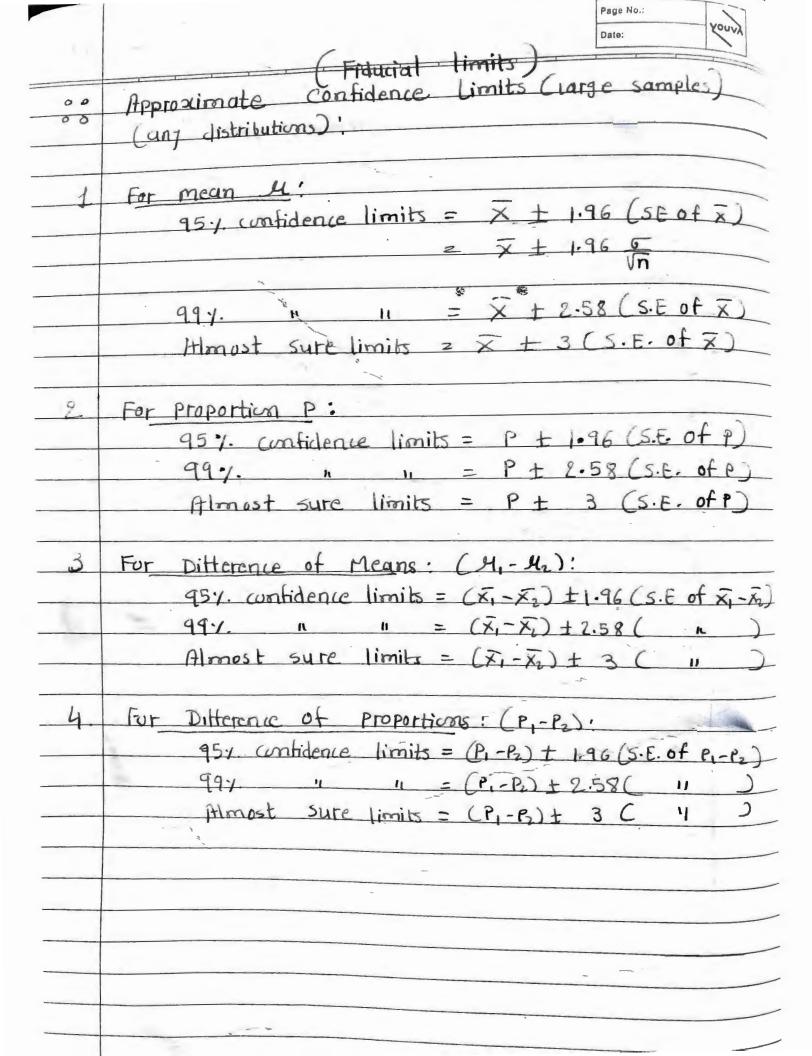
$$V = \frac{P_1 - P_2}{\sqrt{\frac{P_1 P_1}{n_1} + \frac{P_2 P_2}{n_1}}}$$

Parameter

- test

5;4 of S.D.

3, - 52 \\\ \frac{512}{2n}, \tau \frac{22}{2n_2}



Y	The point estimation of population mean 4 with Sample mean × for a large sample (n) so), we can assert with probability (1-x) that the etror
	X-4 will not exceed by Vn
	i-e (1-x) 100%. large sample confidence interval for point estimator is given 11 ± Zy. (std. error of the estimator)
	in the right tail of a std. normal distri.
3)	Sample Size is when \propto , \in and \subseteq are known sample size $\eta = \left(\frac{Z_{N_2}}{E}\right)^2$
	when 6 is unknown or n<30 the maxi error estimate
	where t distri. is with (n-1) degree of freedom
Swaller Petruates	Cd.f.) Cstmater Larger With smaller Van.
- Lay	