## ्रीकी छंत्र 1°C2

(i) 
$$\overline{x} = \frac{5\pi}{N}$$

$$(ij) \quad \underline{x} = \underline{\xi(ix)};$$

(i) 
$$\overline{\chi} = \frac{\leq \pi}{N}$$
 (ii)  $\overline{\chi} = \frac{\leq \sqrt{i} \times i}{N}$  , where  $N > \leq \sqrt{i}$ 

Combined Mean

Combined Mean = 
$$\frac{n_1 \overline{x}_1 + n_2 \overline{x}_2 + n_3 \overline{x}_3}{n_1 + n_2 + n_3}$$

\*\* NOTE: - If you are changing each and every observation by either X, -, +, :

then there will be a same change in the mean a bo.

Median

(1) For even observation 
$$\rightarrow$$
 median is  $\left(\frac{n}{2}\right)^{\frac{1}{h}}$  and  $\left(\frac{n}{2}+1\right)^{\frac{1}{h}}$  form.

(2) for table related data >

Mode = 
$$l + \frac{\int_1^1 - \int_0^1}{2\sqrt{1 - \int_2^1 - \int_0^1}} \times h$$
, where  $l \rightarrow lower$  limit of the mode class

to - frequency before to \$2 - frequence just fler fo h > Ronge of the class

Measures of Dispersions Observation: 1: Deviations: 1:-A, A & any no. Mean Deviation  $M \cdot D = \frac{10!}{n}$  or,  $M \cdot D = \frac{5 \cdot 0!}{5 \cdot 1!}$ \*\* NOTE: - Mean deriation is minimum about Median. Stanford Deviation ) always taken from mean raviance = Mean of (di) S.D = Variance (x;) ~ - (x) ~ (P) If observating are increased or decreased by 'a' thin, their is no (ii) If a is multiplied or divide with each and every abservations Then, S.D gets multiplied or dirived by a and (417) variance for 'n' successive natural no.  $\sqrt{-} \left( \frac{n^2 - 1}{12} \right)$ of n consecutive even at odd natural no. >  $\sqrt{=} \left( \frac{n^{\gamma} - 1}{12} \right) \times 4 = \left( \frac{n^{\gamma} - 1}{3} \right)$ C·Y= 5 x 100 To coefficient of variation. Combined Data Combined  $S.D(\delta) = \left[ \frac{\Gamma_1(\delta_1^{\gamma} + d_1^{\gamma}) + \Gamma_2(\delta_2^{\gamma} + d_2^{\gamma})}{\Gamma_1(\delta_1^{\gamma} + d_1^{\gamma})} \right]$