Recall
1) Measures of Central tendency
a) Mean
e) Median
c) Mode
d) Creometric mean
e) Harmonic mean.
2) Measures & dispersion. a) Range (1) Quartile deviation (2) Meandeviation along Mean.
a Standard deviation (e) Moments.

(Drelation (Linear). Amount & relationship between two Variables. $\times |\Psi| \downarrow |\Psi| \downarrow$ Multiple Corrobation Parfial Correlation Kelahanship It w) NZ-1-(2x) NZy-(Z/y) 2, & 12 heefin 73 Constant Y = Gov(X,Y) R_{12:3} Multiple correlation Properties of covelation coefficient

1) V lier blu -1 & 1. ie -1 \le \ \le 1.

2) Covelation is unaffected by the change of scale & Trigin.

Individual Observations.

rete Continuous

67 67 68 69 X: 65 66 65 68 72 72 69 71. Y: 67 68 N > 2 of sometion r= N= 24 - Zx 24 NZZ-(ZX)2 (NZY-(ZY)2 , dr = x-A

Calculate Correlation Colst:

1 d7= x-68

$$\sqrt{\frac{1}{\sqrt{24}}} = \sqrt{\frac{1}{24}} \sqrt{\frac{1}{\sqrt{24}}} = \sqrt{\frac{1}{24}} = \sqrt{\frac{1}{24}$$

$$= \frac{8(24) - 0 \times 0}{8(36) - 6^{2}} = \frac{192}{6\sqrt{8} \times 352}$$

$$= \frac{192}{6\sqrt{8} \times 352}$$

$$= \frac{192}{6\sqrt{2816}} = 0.603$$

The following table gives the number of third per lath of population in different age groups. Find out the correlation between age & blindness. 40-50 30-40 20-30 10-20 150 111 100 67 Thind Moth: 70-80 60-70

300

$\frac{60-70}{70-80}$ $\frac{65}{75}$ $\frac{300}{500}$ $\frac{2}{350}$ $\frac{350}{122500}$ $\frac{122500}{70-80}$ $\frac{7}{75}$ $\frac{2}{350}$ $\frac{1}{2178}$ $\frac{2}{350}$ $\frac{1}{12500}$ $\frac{1}{12500}$ $\frac{2}{350}$ $\frac{1}{12500}$ $\frac{2}{350}$ $\frac{1}{12500}$ $\frac{1}$
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