

SNSCOLLEGEOFTECHNOLOGY



(AnAutonomousInstitution)

Coimbatore-641035.

UNIT-II Quantitative Statistical measures

Standard Deviation

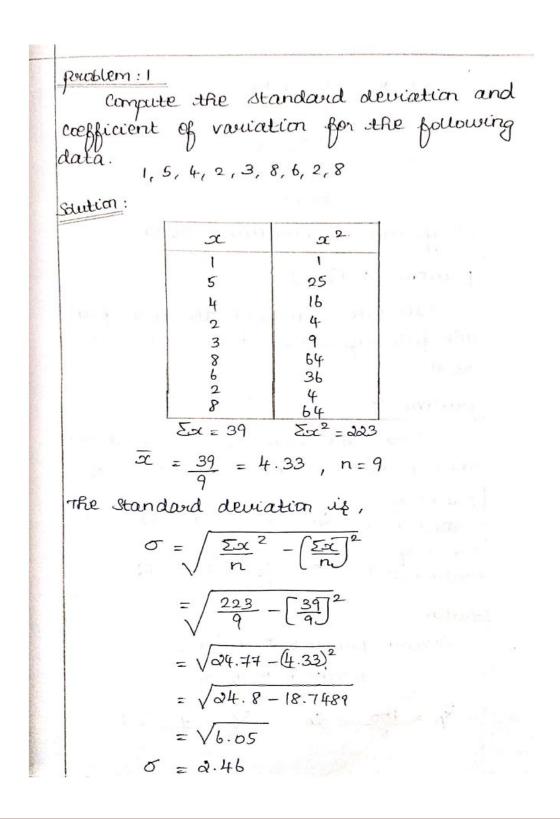
Standard Deviation: (S.D) Standard Deviation is the square root of the mean of the squared deviations from their arithmetic mean. so it is also known as root mean square deviation. It is denoted by o (signa). Formula: $\sigma = \sqrt{\frac{\Sigma \pi^2}{n} - \left(\frac{\Sigma \pi}{n}\right)^2}$ $Coefficient of variation (C.V) = \frac{\sigma}{\sqrt{2}} \times 100$ where $\sigma = standard deviation$ Sc = Hean seviation from Actual Hear : This method is used when the value of mean is whole number then $\sigma = \sqrt{\Sigma (\pi - \pi)^2}$ Deviation from Assumed Hean: This method is applied when the mean value is in fractions then $\sigma = \sqrt{\frac{zd^2}{N} - \left(\frac{zd}{N}\right)^2}$ where d = a-A a - A - Eld



SNSCOLLEGEOFTECHNOLOGY

(AnAutonomousInstitution) Coimbatore-641035.







SNSCOLLEGEOFTECHNOLOGY



(AnAutonomousInstitution) Coimbatore-641035.

