

SNSCOLLEGEOFTECHNOLOGY

(AnAutonomousInstitution)



Coimbatore-641035.

UNIT-II Quantitative Statistical measures

Quartile Deviation

Quartile Deviation: Quartile seviation (G.D) is an absolute measure of dispersion and it is based upon upper quartile (Q3) and laver auautile (QI). It represents the average difference between two substilles and is given by $Q.D = \frac{Q_3 - Q_1}{2}$ Where, Q3-Q1 is called Inter quartile. D Q. D is called as semi Inter quartile sange. The ocelative measure of Q.D is called Coefficient of Q.D. Coefficient of $Q \cdot D = \frac{Q_3 - Q_1}{Q_3 + Q_1}$ Example:1 From the following data calculate martile deviation and its coefficient. 1490 692 777 335 582 488 753 384 407 672 522 <u>Solution</u>: Averange it in ascending ander 335 384 407 488 522 582 672 692 753 777 1490



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$$O_{1} = Size ef \left(\frac{N+1}{4}\right)^{4} \text{ item}$$

$$= Size ef \left(\frac{11+1}{4}\right)^{4} \text{ item}$$

$$= Size ef \left(\frac{12}{4}\right)^{4} \text{ item}$$

$$= Size ef \left(3\right)^{4} \text{ item}$$

$$Q_{1} = 407$$

$$Q_{3} = Size ef 3 \left(\frac{N+1}{4}\right)^{4} \text{ item}$$

$$= Size ef 3 \left(\frac{11+1}{4}\right)^{4} \text{ item}$$

$$= Size ef 3 \left(\frac{12}{4}\right)^{4} \text{ item}$$

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$$= Size ef 3 \left(\frac{3}{4}\right)^{4} \text{ item}$$

$$= Size ef 3 \left(3\right)^{4} \text{ item}$$

$$= Size ef 3 \left(3\right)^$$



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$$Q_{1} = Size ef \left(\underbrace{W+1}_{4} \right)^{4R} \text{ item}$$

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$$= Size ef \left(3 \right)^{4R} \text{ item}$$

$$Q_{1} = 407$$

$$Q_{3} = Size ef 3 \left[\underbrace{N+1}_{4} \right]^{4R} \text{ item}$$

$$= Size ef 3 \left(\underbrace{H+1}_{4} \right)^{4R} \text{ item}$$

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