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 matric no: 1215NG06/050

CI	xc	f	$(x - \bar{x})^2$
1-5	0	2	17.14
6-10	7	4	8.14
11-15	10	7	34.34
16-20	25.2	20	4.99
21-25	17	16	7.86
26-30	5	10	0.74
31-35	4	4	0.02
	<u>29</u>	<u>63</u>	<u>74.86</u>

$$\text{Mean} = \frac{\sum x}{n} = \frac{29}{7} = 4.14$$

$$\text{var} = \frac{\sum (x - \bar{x})^2}{n}$$

$$\text{var} = \frac{\sum (x - \bar{x})^2}{n} = \frac{74.86}{7}$$

$$= 10.69$$

$$\text{mean (y)} = \frac{\sum y}{n} = \frac{63}{7} = 9$$

$$\text{S.D} = \sqrt{\text{var}} = \sqrt{10.69} = 3.27$$

$$\text{Group II var} = \frac{\sum (y - \bar{y})^2}{n} = \frac{274}{7}$$

$$= 39.14 \quad \text{S.D} = \sqrt{\text{var}} = \sqrt{39.14} = 6.25$$

iii) Coeff of Var = $\frac{SD}{\bar{X}} \times 100$

$\frac{3.27}{4.14} \times 100 = 78.98$

ii) $\frac{6.26}{9} \times 100 = 69.56$

iv) Group I has less variable distribution

$\frac{6.26}{9} = 0.6956$

$\frac{3.27}{4.14} = 0.7898$

$\frac{3.27}{4.14} > \frac{6.26}{9}$

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$\frac{6.26}{9} = 0.6956$

Since 0.7898 > 0.6956, Group II has more variable distribution.