

iii) COEFFICIENT OF VARIATION

Group A

$$CV = \frac{s}{\bar{x}} \times 100$$

$$= \frac{40.47}{17.86} \times 100$$

$$= 226.5 \times 100$$

$$= \underline{\underline{226.5}}$$

Group B

$$= \frac{76.28}{38.14} \times 100$$

$$= 2 \times 100$$

$$= \underline{\underline{200}}$$

iv) Group B has less variable distribution

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 STATISTICS
 COMPUTER ENGINEERING

Group A		Group A		Group B		Group B	
Class	freq	Class	freq	Class	freq	Class	freq
1-5	0.5 - 5.5	0	0	3	0	2	2
6-10	5.5 - 10.5	7	7	8	49	6	8
11-15	10.5 - 15.5	10	17	13	170	7	13
16-20	15.5 - 20.5	2	19	18	35	20	33
21-25	20.5 - 25.5	1	20	22	20	16	49
26-30	25.5 - 30.5	5	25	28	125	10	59
31-35	30.5 - 35.5	4	29	33	116	4	63
		29	117			63	225

i)

MEAN

GROUP A

GROUP B

$$\bar{x} = \frac{\sum fx}{\sum f} = \frac{518}{29} = 17.86$$

$$\frac{2403}{63} = 38.14$$

ii) STANDARD DEVIATION

$$s = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n-1}}$$

$$= \sqrt{\frac{(156.86)^2}{6}}$$

$$= \sqrt{\frac{(99.14)^2}{6}}$$

$$= \sqrt{\frac{24916.6596}{6}}$$

$$= \sqrt{1638.123267}$$

$$= \sqrt{4152.77667}$$

$$= 40.47$$

$$= 64.44$$