

Q.18 Stem & leaf plot
 $n = 20$

1.	0
2.	3 4 6 8 8 9
3.	0 5 6 6 9
4.	4 5 8
5.	0 2 5 8 2
6.	2 7

Q.19 Chebyshev's

$$\text{Mean} = 75$$

$$\text{Variance} = 25$$

$$\text{Std. dev} = \sqrt{25} = 5$$

$$\text{Range: } [65 \quad 85]$$

$$= \frac{(65 - 75)}{5} = \frac{10}{5} = 2$$

As per Chebyshev's

$$\text{If } k \leq \frac{1}{k^2} = \frac{1}{2^2} = \frac{1}{4} = 0.25$$

Ans: 0.25