

Median :-

$$\frac{\text{value of } \left(\frac{20}{2}\right)^{\text{th}} \text{ Observation} + \text{value of } \left(\frac{20}{2} + 1\right)^{\text{th}} \text{ Observation}}{2}$$

$$= \frac{\text{value of } 10^{\text{th}} \text{ Observation} + \text{value of } 11^{\text{th}} \text{ observation}}{2}$$

$$= \frac{21 + 21}{2} = 21 \text{ Ans}$$

Mode :-

In the given data the observation

11, 16, 18, 21, 22, 23, 24 occurs twice

$$\therefore \text{Mode} = 11, 16, 18, 21, 22, 23, 24$$

Range :-

$$X_{\text{max}} - X_{\text{min}} = 24 - 4 = 20 \text{ Ans}$$

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