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## **Key Notes**

## Chapter 14 Statistics

- 1. Collection of Data
- 2. Presentation of Data
- 3. Graphical Representation of Data
- 4. Measures of Central Tendency
- Statistics is the area of study that deals with the collection presentation, analysis and interpretation of data.
- Data: Facts or figures, collected with a definite purpose, are called data.
- There are two types of data (i) Primary (ii) Secondary
- We can represent the data by (i) ungrouped and grouped frequency distribution.
- Data can also represent by (i) bar graph (ii) Histogram (iii) Frequency polygons
- Class mark of grouped data is
- Measure of central tendencies by mean, median, mode.
- Mean:  $(\bar{x}) = \frac{\text{sum of all observations}}{\text{Total no. of observations}}$
- If observations denoted by and their occurrence i.e. frequency is denoted by then mean is

+

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$$(\overline{x}) = \frac{2}{n} (\overline{x}) = \frac{\Sigma fixi}{\Sigma fi}$$

Median: Arrange the observations in ascending or descending order then if numbers of observations (n) are odd then then median is <sup>+</sup>/<sub>2</sub> term.

If no. of observations (n) are even, then median is average of  $2^{n}$  and  $\frac{n}{2} + ...$  terms.

- Mode: The observation whose frequency is greatest.
- Mode = 3 median 2 mean.

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