# **Glossary**

# 1. Arithmetic mean

The value obtained by dividing the sum of a set of quantities by the number of quantities in the set.

## 2. Average

Constituting the result obtained by adding together several quantities and then dividing this total by the number of quantities.

#### 3. Continuous

It is relating to a line or curve that extends without a break or irregularity.

# 4. Discrete

It is a finite or countable set of values, which are not continuous.

# 5. Figure skating

Ice skating consisting of one or more planned sequences of required and optional spins, jumps, and dancelike manoeuvres, originally consisting of a program in which the skater traced prescribed, usually elaborate figures.

# 6. Frequency Distribution

A set of intervals, usually adjacent and of equal width, into which the range of a statistical distribution is divided, each associated with a frequency indicating the number of measurements in that interval.

## 7. Geometric mean

Geometric mean is the 'nth' root of the product of 'n' items of a series.

#### 8. Harmonic mean

Harmonic mean is quotient of "number of the given values" and "sum of the reciprocals of the given values". The harmonic mean of any series is the reciprocal of the arithmetic mean of the reciprocal of the variate.

#### 9. Individual series

Individual observations or series mean is the one where frequencies are not given. Here, all the different values of the items are added and are divided by the total number of items.

#### 10. Logarithm

The power to which a base, such as 10, must be raised to produce a given number. If nx = a, the logarithm of a, with n as the base, is x; symbolically, logn a = x.

## 11. Mean

The mean or average is the sum of the numbers divided by the total number of data points.

#### 12. Median

In probability theory and <u>statistics</u>, a median is described as the numeric value separating the higher half of a sample, a <u>population</u>, or a <u>probability distribution</u>, from the lower half.

#### 13. Truncated mean

A truncated mean or trimmed mean is a statistical measure of central tendency, much like the mean and median. It involves the calculation of the mean after discarding given parts of a probability distribution or sample at the high and low end, and typically discarding an equal amount of both.

#### 14. Variate

It is a random variable with a numerical value that is defined on a given sample space.

## 15. Weighted mean

Weighted mean is a mean that is computed with extra weight given to one or more elements of the sample. The term weighted average usually refers to a weighted arithmetic mean, but weighted versions of other means such as the weighted geometric mean and the weighted harmonic mean can also be calculated.