

**Subject : Elementary Mathematics and Statistics.**

**Paper No – Math Stat 304**

**CA – 6**

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**Objectives:**

- 8) To provide knowledge about basic calculation by mathematics.
- 9) To impart the knowledge about statistical calculation.
- 10) To inform the students regarding the application of statistics in research project.

Unit – 1

- a) Logarithm and stock and share.
- b) Area – Rectangle, square, sphere, cylinder, cone.  
Volume – Cube, cuboids, cone, cylinder, sphere, cone.

Unit – 2

- a) Simple interest and compound interest.
- b) Definition and scope, importance uses of statistics.
- c) Data and its theory.

Unit – 3

- a) Presentation of statistical information – Frequency distribution, graphical presentation of frequency distribution – Bar graph, frequency polygon, cumulative frequency graph.
- b) Types of variables – Dependent and independent variables.

## Unit – 4

- a) Measures of central tendency mean, median, mode.
- b) Measures of dispersion – Range, standard deviation, mean deviation.

### **References**

- Text book of mathematics std – 8<sup>th</sup>, 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup> and 12<sup>th</sup> standard.
- ગુજરાત રાજ્ય શિક્ષણ બોર્ડ, ગુજરાત રાજ્ય, અમદાવાદ.
- ગુજરાત રાજ્ય શિક્ષણ બોર્ડ, ગુજરાત રાજ્ય.