

## \* Function of Statistics :-

### 1. Statistics presents facts in simple form:

Statistics presents facts and figures in a definite form. That makes the statement logical and convincing than mere description. It condenses the whole mass of figures into a single figure. This makes the problem intelligible.

### 2. Reduces the complexity of data:

Statistics simplifies the complexity of data. The raw data are unintelligible. We make them simple and intelligible by using different statistical measures.

Some such commonly used measures are graphs, averages, dispersions, skewness, kurtosis, correlation and regression etc.

These measures help in interpretation and drawing inferences. Therefore, statistics enables to enlarge the horizon of one's knowledge.

### 3. Facilitates comparison:

Comparison b/w different set of observation is an important function of statistics. Comparison is necessary to draw conclusions as Professor Boddington rightly point out. "The object



of statistics is to enable comparison between past and present results to ascertain the reason for changes, which have taken place and the effect of such changes in future.

4. Testing Hypothesis :

Formulating and testing of hypothesis is an important function of statistics. This helps in developing new theories. So, statistics examines the truth and helps in innovating new ideas.

5. Formulation of Policies :

Statistics help in formulating plans and policies in different fields. Statistical analysis of data forms the beginning of policy formulation. Hence, statistics is essential for planner, economists, scientists and administrators to prepare different plans and programmes.

6. Forecasting :

The future is uncertain. Statistics helps in forecasting the trend and tendencies. Statistical techniques are used for predicting the future values of a variable. For example a producer forecast his future production on the basis of the present demand conditions and his past experienced. Similarly, the planners can forecast the future of population etc. considering the present population trends

7. Derives valid inferences:

Statistical methods mainly aim at deriving inferences from an enquiry. Statistical techniques are often used by scholars planners and scientists to evaluate different projects.

These techniques are also used to draw inferences regarding population parameters on the basis of sample information.