## VIII- Mathematics Assignment-Introduction to Graph.

Basic Points

In Statistics, firstly the data is collected From Some Source, such data is known as phinary data. As Soon as this work of collection of data in over, the investigation has to find a way to present the data in such a folm which in meaningful i.e., easy to understand and gives it main features at a glance. So we arrange the data in the form of frequency distribution table Now let us turn our catterition to another representation of data ie, the graphical representation. It is well said that one picture is better than a thousand words. In general, Comparisons among the individuals items are best Shown by wears of graphs. The representation then becomes -casier

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to Understand than the actual data. So the Visual representation of the date in in the form of bictograph or borr graph. You can look at the bas graph and make deduction about the data. you can also got information based on these bar graphs. Different types of graphs represent different meaning,

(i) Book graff in used to 8how Comparison among categories

ii) A pie chart (graph) in used to Compare parts of a whole.

iii) It Histogram is a bor graph that Shows data he intervals iv) A line graph displays data that the changes Continuously over periods of

lime. (V) A linear grafh in a line graph Which in a whole unbroken line

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While drawing the graph following points to be kept in mind.

## For Bar Graph

on x-anis, bars of Uniform Width are drawn with equal spacing between them depicting the Variable.

on y-anis, the values of the Variables and the heights of the bars that will be proportional to the values of the Variable.

For Histogram It is a graphical representation of frequency distribution It Consists of a Set of rectangles having their heights proportional to their class frequencies, for equal class intervals. There is no gap between two successive rectangles.

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A Pie chart or a circle graph

A pie-graph in used to Corresponde ports
of a whole. The circle represents the
Whole and various central congles represent
the parts corresponding to various data.

A dine graph

In this, the grath is formed by joining the line Segments (Various) that is formed over the period of time

The Linear Graphs

As we know that in line graph, bits of line segments are joined Continuously some times the graph may be a whole unbroken line. Such a graph in known on linear graph. It is always in the form of a strought line.