B! what do you mean by dispersion?

Dispersion: From the measures of central tending, we can get knowledge only about the central values. They do not no provide us the highest or lowest values the range or how spreated the observations. For these kinds of information exhout any services we have to use the measures of dispersion.

orc, Dispersion: The distance of different values from central value is called dispersion.

what do you mean by measures of disperssion? why it is important?

Measures of dispursion: A measure of dispursion discreibes the distres of scatters shown by observations and is usually measured as an average deviation about some central value.

It is impore tant, because it should be easy to exculote and easy to understand, it should be based on all observations and it should be affected as title little as possible by fluctuations of sampling,

- a. What are the qualities of good measures of dispersion? which measures is switable and why?
 - characteristics of a good measure of dispersion are given below;
 - 1. It should be reigidly defined
 - 2. It should be beasy to calculate and easy to underestand.
 - 3. It should be based on all the observations
 - 4. It should be sampling stability
 - 5. it should be affected as little as possible by fluctuations of sampling.
 - standared deviation is considered to be the best measure of dispersion and is therefore, the most widely used measure of dispersion.
 - 1. It is based on all values and thus, provides information about the complete services, because because of this reason, a change in even one value affects the value of standard deviation.
 - 2. it is independent of oragin and depends on scale
 - 3. It is useful in advance statistical calculations like compatison of varietability in two series of data.
 - 4. it can be used in testing hypothesis
 - 5. It is capable of further abobicic treatment,

Distinguish between absolute measures of dispersion and relative measures of dispersion.

soln: There is some difference between absolue and relative measures of dispussion is given below

		Accorded to some of the most
Points of difference	Absolute measures of dispersion	Relative measures of dispersion
1. Deffinition	when dispersion measured in orciginal units then it is known a absolute measure of dispersion.	A measure of telative dispersion is the teatibo of a measure of absolue dispersion to an appropriente average.
2. Ratio and Petrcentage	Absolute measure of despetesion are not expressed interems of tration percentage etc.	Greno teally, reelative measures of dispersion are expressed interems of teatio, percentage etc.
3. Measurces	The four important absolue measurces of disportsion are as follows: (i) Range (ii) Mean deviation (iii) standard deviation (iv) quartile deviation	The tralative measures of de's persolon areas follows: (is coefficient of range is coefficient of mean deviation (ii) coefficient of variation (iii) coefficient of variation (M) coefficient of quartile deviation
4. source	it is calculated from the now data.	it is calculated from the absolute measure of dispersion