

Statistics - ICom Part 1 Statistics Chapter 4 Short Questions Preparation

Q1. Define dispersion, mean deviation and standard deviation.
Ans 1: By dispersion, we mena the extent to which the values are spread out from the average.
Ans 2: The mean deviation is defined as the average of absolute deviations of the valeus from an average mean or median.
Ans 3: The standared deviation as the positive square root of the mean of the squared deviations of the values from their mean
Q2. Is it possible that first moment abut mean is 10
Ans 1: No, it is not possible that first moment about mena is 10. The first moment about mena is alwyas equal to zero.
Q3. Define absolute dispersion.
Ans 1: The actual variation or dispersion determined by measured of dispersion is called absolute dispersion.
Q4. What do you mean by a symmetrical distribution?
Ans 1: The distribution is called symmetric if the frequency curve is such that the left of curve to its mean is the mirror image of curve to the right of mean.
Q5. Why standared deviation is preferred over mean deviation.
Ans 1: The mean diviation treates both positive and negative values as positive. It is not capable of algebraic manipulation due the absolute values, On the other hand, teh standard deviation has a definite mathematical meaning and is pderfetly adaptable to algebraic treatment.
Q6. Differentiate between inter quartile range and quartile deviation.
Ans 1: Quartile Deviation is the half of inter quartile range.Q.D=Interquartile range/2
Q7. Define weighted arithmetic mean.
Ans 1: The weighted mean is the mean which takes into account the weight of each value.

Ans 1: Kurtosis is the degree of peakedness of a distribution usually taken relatie to a normal distribution.	
Q9. When the distribution is Leptokurtic,	

Ans 1: If the value of b2=m4/ m2is greater then 3 then the distribution is leptokurtic.

Q10. What is symmetry and skewness?

Q8. Define Kurtosis.

Ans 1: It the values equidistant from the mean have equal frequencies, that the distribution is called the symmetrical distribution. Lack of symmetry is called skewness.