STATISTICS WORKSHEET-1

Que 10. What do you understand by the term Normal Distribution?

Ans. Normal Distribution:

The normal distribution is the most widely known and used of all distributions.

Because the normal distribution approximates many natural phenomena so will,

it has developed into a standard of reference for many probability problems.

Why Normal Distribution?

Normal distributions are important in statistics. There importance is partly due to the

central limit theorem. A normal distribution is sometimes informally called a bell curve.

Many things actually are normally distributed, or very close to it. For example, height

and intelligence are approximately normally distributed; measurement errors also often

have a normal distribution.

The normal distribution is easy to work with mathematically. In many practical cases, the

methods developed using normal theory work quite well even when the distribution is not normal.

There is a very strong connection between the size of a sample N and the extent to which a

sampling distribution approaches the normal form. Many sampling distributions based on

large N can be approximated by the normal distribution even though the population distribution

itself is definitely not normal.

It is a probability distribution that is symmetric about the mean, showing that data near the mean are

more frequent in occurrence than data far from the mean. In graph form, normal distribution will

appear as a bell curve.

Que 11. How do you handle missing data? What imputation techniques do you recommend?

Ans.