

Statistics - ICS Part 2 Statistics English Medium Chapter 1 Short Questions Preparation

Q1. What are the mean and standard deviation of a Standardized normal Variate Z ?

Ans 1: $E(Z) = 0$ and $S.D(Z) = 1$

Q2. What stands for Z in normal distribution ?

Ans 1: Z is a standardized normal variate (SNV) having zero mean and unit variance.

Q3.

Ans 1: These are independent of each other.

Q4. How many points of inflection have the Normal Distribution ?

Ans 1:

Q5. What are the five important properties of Normal Distribution ?

Ans 1:

Q6. Is it true that sum of the independent Normal variates is also a Normal Variate ?

Ans 1: Yes, It is true.

Q7. Why correction for continuity is in above transformation ?

Ans 1: To make discrete Binomial variable X as continuous Normal variable.

Q8. When Binomial distribution is approximated by Normal Distribution ?

Ans 1:

Q9. If St. deviation of a normal variate is 20, then what would be the value of M.D ?

Ans 1:

Q10. What is the maximum value of ordinate of Z and where it happens ?

Ans 1: The maximum value of ordinate if $f(z) = 0.3989$ when $Z = 0$.
