- 1. In a trivariate distribution if $r_{12}=0.7$, $r_{13}=0.16$ and $r_{23}=0.4$ find all the multiple correlation coefficients. Also obtain the standard errors of estimates $\sigma_{1.23}$, $\sigma_{2.13}$ and $\sigma_{3.12}$ given that: $\sigma_{1}=1.86$, $\sigma_{2.15}$ and $\sigma_{3}=3.46$.
- 2. From the data relating to the yield of dry bark (X_1) , height (X_2) and girth (X_3) for 18 Mango plants, the following correlation coefficient are obtained $r_{12}=0.77$, $r_{13}=0.72$ and $r_{23}=0.52$. Find the partial correlation coefficient $r_{12.3}$ and the multiple correlation coefficient $R_{1.23}$
- 3. What do you mean by large sample?
- 4. Mention foe tests of Large samples.