

- Q. 1 Suppose 300 misprints are distributed randomly throughout a book of 500 pages. Find the probability that a given page contains (i) exactly 2 misprints (ii) 2 or more misprints. ($e^{-0.6}=0.549$)
- Q. 2 In a normal distribution 31% of the items are under 45 and 8% are over 64. Find the parameters of the distribution. Given that $\varphi(0.50)=0.19$; $\varphi(1.41)=0.42$
- Q. 3 If X is uniformly distributed with mean 1 and variance $4/3$. Find $P(X < 0)$
- Q.4 Calculate the Karl Pearson's coefficient of correlation of the following data.

x	25	27	30	35	33	28	36
y	19	22	27	28	30	23	28