

Assignment

1. Define marginal distribution of discrete bivariate random variable.
2. Define marginal distribution of continuous bivariate random variable.
3. Define conditional probability function for discrete bivariate random variable.
4. Define conditional probability function for continuous bivariate random variable.
5. For the joint probability distribution of 2 random variables X and Y given below. Find the conditional distribution of X given the value of Y=1 and that of Y given X=2.
6. The joint probability density function of a two-dimensional random variable (X, Y) is given by, $f(x,y)=2; 0 < x < 1, 0 < y < x$. Test whether X and Y are independent.