Joint pmf

$$P \times_{1/X_{2}} (X_{1}, X_{2}) = P [X_{1} = X_{1}, X_{2} = X_{2}]$$

$$(X_{1}, X_{2}) \in \mathbb{D}$$

(ii) 
$$\leq \sum_{p} p_{X_1 X_2} (X_{1_1} X_{2_1}) = 1$$

$$P[(X_1, X_2) \in B] = \sum_{B} p_{X_1, X_2} (X_1, X_2)$$

$$\frac{\partial^2 F_{X_1 X_2}(X_1, X_2)}{\partial X_1 \partial X_2} = f_{X_1, X_2}(X_1, X_2)$$

(i) 
$$f_{X_1,X_2}(X_1,X_2) \geq 0$$

(ii) 
$$\iint_{D} f_{X_{1},X_{2}}(x_{1},x_{2}) dx_{1} dx_{2} = 1$$

$$P[(X_1, X_2) \in A] = \iint_A f_{X_1, X_2}(X_1, X_2) dX_1 dX_2$$

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