## Assignment-3

## EE22BTECH11012-A.Chhatrapati

Question 10.13.3.37)A child's game has 8 triangles of which 3 are blue and rest are red, and 10 squares of which 6 are blue and rest are red. One piece is lost at random. Find the probability that it is a

- (i) triangle
- (ii) square
- (iii) square of blue colour
- (iv) triangle of red colour

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Variable	Value	Description
X	1	Triangle
	0	Square
Y	1	Blue coloured
	0	Red coloured

- (i)  $p_X(1) = \frac{8}{18}$ (ii)  $p_X(0) = \frac{1}{18}$ (iii)  $p_{XY}(X = 0, Y = 1) = \frac{6}{18}$ (iv)  $p_{XY}(X = 1, Y = 0) = \frac{5}{18}$