## 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	Lost piece is Triangle
Y	1	Lost piece is Square
A	1	Lost piece is Blue coloured
В	1	Lost piece is Red coloured

- (i)  $p_X(1) = \frac{8}{18}$ (ii)  $p_Y(1) = \frac{10}{18}$ (iii)  $p_{YA}(1) = \frac{6}{18}$ (iv)  $p_{XB}(1) = \frac{5}{18}$