Poroblems Set - 2;

A bag contains

5 Red balls, 8 blue balls, 11 White balls. Three
balls are drawn together from the box. Find
the probability that
is One is red, one is blue, one is white
iis Two whites and one red
iii) Three white

Solution:- No. of Exhaustive Cases = 24 = 2024

i) One is sed, one is blue, one is white
No. of possible cases = 50, 50, 110, = 440

Required probability = 54.84. 1161

= HHO

is, Two white and one sed No. of possible cases = 11c2. 5c,

Regulard probability = 1162.5cg = 275 24C3 = 2024

No of possible cases = 1163 = 165

HAN Urn contains & white and 3 red balk

If two balls are drawn at mandom, Find

The probability that

i) both are white

ii) both are rud

iii) both are rud

iii) one is of each color:

11(2)

He Three light bulbs are chosen at mandom of som 12 bulbs of which is are defective find the possbability that is, All are defective in two are defective in one is defective it, No come is defective

501: - NO. Of Fxhauctine Cases = 12c3 = 220

No of possible Chees = 503 = 10

Required parob 1 = $\frac{5C_3}{12C_3} = \frac{10}{220} = \frac{1}{22}$

No of possible cases = 50.70, = 70

iis one is defication No. of possible cases = 50, 75 = 105

Required probability = $\frac{105}{220} = \frac{21}{44}$ iv, No one is defective

No. of possible cases = $\frac{5}{2}$ 60 7c3

Required probl = 500.763 = 35

