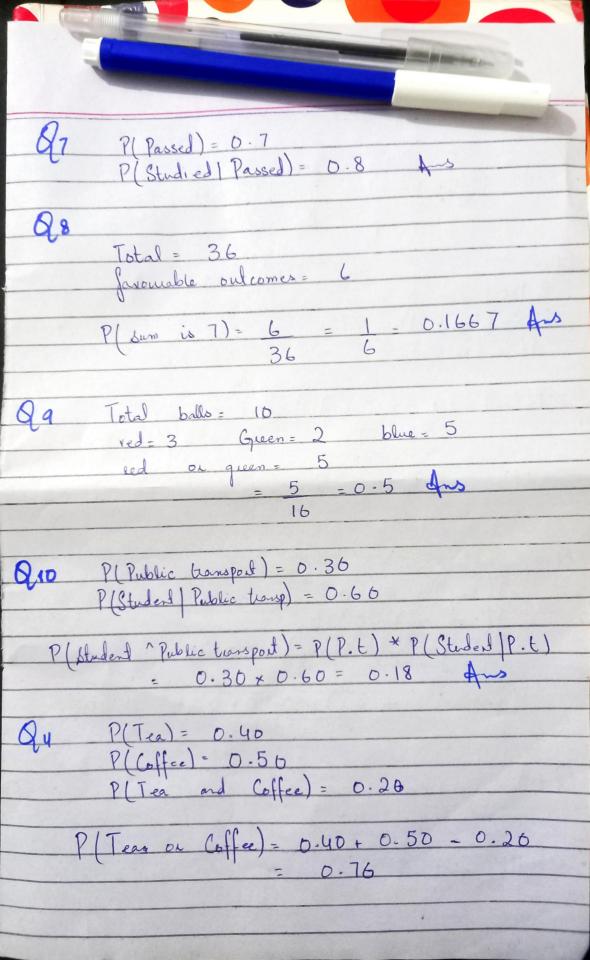
Alisha Iqbah Total Student = 200 91 maths = 120 sci = 80 both = 56 probability of stud. like both subjects =? P(A) = 50 = 0.25 Ans 200 Q2 machine A = 0.60 machine B = 0.40 defeet A = 0.05 defect B = 0.10 P(D)= (0.60 x 0.05) + (0.40 x 0.10) = 0.03 + 0.04 P(D) = 0.07 P(B|D) = P(D|B). P(B) P(D) 0.10 x 0.40 0.07 P(BID) = 0.571 Ans 03 Total = 10 apples = 6 Dranges - 4 P(0) = 4/

P(C) = 0.01 having condition P(C) = 0.99 not having 94 P(Positive(C) = 0.90 (true positive rate) P(Positive (7C) = 0.10 (false positive rate P(Positive) = P(C) * P(Pos/C) + P(n C) * P(Pos/a C) = (0.01 × 0.90) + (0.99 × 0.10) - 0.108 P(C|Pos) = P(Pos(C). P(C) P(Positive) 0.90 x 0.01 = 0.083 Ans 0.108 1ava = 100 total = 300 25 Python = 180 both = 50 Plantaling P(PUJ) = P(P) + P(J) - P(Both) - 100+180-500 = 230 = 230 = 0.7667 Aus 300 P(R) = 0.6 it can 06 P(UIR) = 0.9 cary umbrolla giver it jair P(RNU) = P(R) x P(UIR) = 0.6 x 0.9 = 0.54



Q 12
$$2^{3} = 8$$

$$favourable oulcome = 3$$

$$P(two head) = 3 = 0.375$$

$$8$$

$$P(Sec) = (0.5 * 0.60) + 0$$

Q14.

P(veg) = 0.40

P(non veg) = 0.35

P(veg and nonveg) = 0.20

P(veg or non veg) = 0.40 + 0.35 - 0.20

Q15. Total = 1000 repeat = 300

new bugger = 400 repeat and loyal = 200

916
Plane wisk tree = 0.
VI VILLEY LISK no CX
P(Ex) = 0.60 P(Ex)
P(Ex) = 0.60 P(no Ex) = 1 - P(Ex) = 1 - 0.60 = 0.40
P(lowerrisk) = (0.60 × 0.90) + (0.40 × 0.10)
P(lowerrisk) = (0.60 × 0.90) + (0.40 × 0.10) P(lowerrisk) = 0.58 Ans.
D17 +otal = 500 both= 150
Q17 total = 500 both = 150 Comp = 250 maths = 100
Student in Comp = 250 + 150 = 400 Student in maths = 100 + 150 = 250
Student in maths = 100 + 150 = 250
P(Comp or Maths)= 400+250-150
$= \frac{500}{500} = 1 \text{ days}$
500
Q18
P(Freed Expectation) = 0.30 P(Promotion Excellent Perf) = 0.50 des
P(Promotion Excellent Perf) = 0.50 des
D.0 210 10:-1-025
P(Survey Quiz) = 0.25 P(Share result Survey) = 0.40 P(Quiz and Share result) = 0.25 x 0.40
P(Quiz and Share result)= 0.25 x 0.40
= 0.10 Am

P(smartphone) = 300 P(tablet) = 200 P(smartphone and Tablet) = 0.25 * 500 P(smart or tablet) = 300+200 - 125 = 375 = 375 = 0.75 Ans 500 P(Visit | Rec Offer) = 0.70 P(Purchase) Visit) = 0.50 P(Visit and Purchase) = 0.70 x 0.50 = 0.35 Q22 P(Jatisfied and Prod.) = 500 1000 0.50 Q23 P(A)= 0-50x 800= 400 P(B) = 0.30 × 800 = 240 P(ANB) = 0-20× 800= 160

$$= 480 = 0.60$$
 fns

Q24.