(2,6) (4,6) (8,4)

(62) (6,4)

P (Sum being even and onedie: 6) = 4 = 1

(2) (1,17 (1,2) (1,3) (1,4) , (1,5)

(2,3) (2,4)

(3,1) (3,2) (3,3)

(4,1) (4,2)

(5,1)

 $P = \frac{15}{36} = \frac{5}{12}$

3) 7/8 H . I had H/I

444 441 441

P(atherst 2 had) = 4/7

61/2 61 P (other kid being gire) $P(24|at-lest 14) = P(161/24) \times P(261) = 1 \times 1 = 1 \times$ mallette not 1/3 No Frafte The beglate rainy 2/3 Traffic 4 late 14 No Treflie 3/4. Note Arrive late - 1/8 a) P(Nol- raining & heavy traffic of not late) = 2 × × 3 = 3 × 4 = 3 b) P(late) = P(Rainy & Fraffic & late)+ P (Rainy & No Troffe & late) + P (not rainy & Traffic & late) + 12 (Not rang of Notraffic & late)

$$= \frac{1}{3} \times \frac{1}{4} \times \frac{1}{2} = \frac{1}{12}$$

$$+ \frac{1}{3} \times \frac{1}{4} \times \frac{1}{4} + \frac{1}{24}$$

$$+ \frac{2}{3} \times \frac{1}{4} \times \frac{1}{4} \times \frac{1}{4} \times \frac{1}{4}$$

$$+ \frac{2}{3} \times \frac{1}{4} \times \frac{1}$$

12 +
$$\frac{1}{24}$$
 = $\frac{3}{24}$ = $\frac{3}{48}$ d = $\frac{6}{11}$ = $\frac{1}{148}$ = $\frac{3}{11}$ = $\frac{1}{148}$ = $\frac{3}{11}$ = $\frac{1}{148}$ = $\frac{3}{11}$ = $\frac{1}{148}$ =

= P (eare/coffa)x P (roffu/code) P (coffee) Plead of coffee cake 0.7x0.2 P (to flee/cake) P (Fruth) P(white ball drawn)

= 5 x 1 + 1/2 P(Fruth) = 4. $P(getting 6) = \frac{4}{5} \times \frac{1}{6}$

C) P (browduate) = 31 = 0.31
100 Marginal Probability

Conditional Probability **₩** d) 7 (P) P(PAF) P(F) P (female/Postgradule) = P (PG 1 Few) P (Post fradute P (front dan / Test accent) = P (Test frank) XP (fam) and doff lower P (Test food) 16% wog = 0.92×0.1 P(flof) = P(oflf) x P(f) 0.92x0.1+ 0.1x0.99 P (4)

0.010099 (206 (115) 345) one parent rend died of renal failure with mothers of parents having it. P(Swimplu) = 1 P Comme flue) given = 0.0001 X grun (Osutve) 14 0.000 1 0.009902 1x0.0001 + 0.999x0.01