EX7 =

$$P(A) = 1$$
  $P(B) = 3$   $P(C) = 1$   $D = defect$ 
 $P(S|A) = 3$   $P(S|B) = 1$   $P(G|C) = 3$ 
 $P(S|A) = 3$   $P(S|B) = 1$   $P(G|C) = 3$ 

$$P(D|A) = 1$$
  $P(D|B) = 1$   $P(D|C) = 1$ 

$$P(M|A) = \frac{3}{10}$$
  $P(M|B) = \frac{1}{6}$   $P(M|C) = \frac{3}{8}$ 

1) 
$$P(A|M) = \frac{1}{2} \times \frac{3}{10}$$
  
 $\left(\frac{1}{2} \times \frac{3}{10}\right) + \left(\frac{1}{6} \times \frac{3}{10}\right) + \left(\frac{1}{5} \times \frac{3}{8}\right)$ 

DATE

ii) 
$$P(cls) = \frac{1}{5} \times \frac{3}{8}$$
  $\left(\frac{1}{5} \times \frac{3}{8}\right) + \left(\frac{1}{2} \times \frac{3}{5}\right) + \left(\frac{3}{10} \times \frac{1}{3}\right)$ 

$$\left(\frac{3}{10} \times \frac{1}{2}\right) + \left(\frac{1}{2} \times \frac{1}{10}\right) + \left(\frac{1}{5} \times \frac{1}{4}\right)$$

1 (0/54)

**CS** CamScanner

Ex 8:

p(m) = 0.51

M = male

p(m) = 0.49 = female

william for a good for the said a) P(M) = 1-0-51

=0-49 1.0-(3)374

b) P(M/R) = 0.095 | P(M/R) = 0.905

P(MIR) = 0-017 (P(MIR) = 0.983

i) p(R|M) = 0-51 x 0.095

(0-51 x 0.095) + (0.51 x 0.905)

= 0.095

160 4 6 0 HE D & (24 0 4 H . 2)

i) P(M/R) = 0.095 x 0.51

(0.095×0.51)+(0.017×0.49)

= 0.8533

[33.4 (3.45) + (31.0

iii) 0-49 = n(m)

160000

n(M) = 44000

0.017 = n(mnr)

49000

110= (11)

111-11-1 = (1)10

n (m n R) = 833

SMIWI