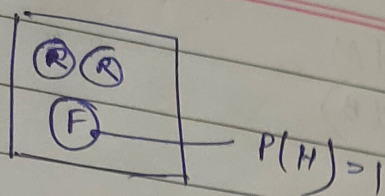
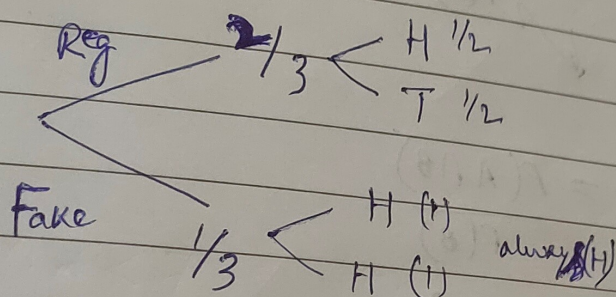


5.



$$P(R) = 2/3$$

$$P(F) = 1/3$$



$$P(H) = \frac{1}{2} \times \frac{2}{3} + 1 \times \frac{1}{3}$$

$$= \frac{1}{3} + \frac{1}{3}$$

$$= \frac{2}{3}$$

$$P(B/A) = \frac{P(A/B) \times P(B)}{P(A)}$$

$$= 1 \times \frac{1}{3}$$

$$\frac{1}{3}$$

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

$$= \frac{1}{2}$$