In Let E, be the event of choosing bag I and E, be the word of choosing lag 2. P(E1) = P(E2) = 1/2 P(drawing black hall from Bay 1) = P(A)E,) = 6 : 6 : 3 and $\theta(0)$ unity black ball from By 2) = $\theta(A/\epsilon_2) = \frac{3}{3+4} = \frac{3}{7}$: P CE4/A) = P(E1) × (P(A/E1) P(E,) x P(P/E,) 7 P(E,) X P(A/E) $\frac{1}{2} \times \frac{3}{5} = \frac{1}{2} \times \frac{3}{5} = \frac{1}$ $\frac{3}{5} \times \frac{35}{15+21}$ = X x 35 + TP(€1/A): 7

and,
$$\mathcal{O}(\frac{1}{2}i) = \frac{5}{6}$$