5.
(a) P(H|W=Good, S=Pass, N=Out) = P(W=Good, S=Pass, N=Out) H) . P(H)

P (W=Good, 5= Pass, N=Out)

= P(W=Good H) . P(S=Pass I H) . P(W=Out IH) . P(H

P(w=Good). P(S=Pass)-P(N=Out

 $= \left(\frac{1}{3}\right) \cdot \left(1\right) \cdot \left(\frac{1}{3}\right) \cdot \left(\frac{3}{8}\right)$ 

 $\left(\frac{1}{2}\right)\cdot\left(\frac{1}{2}\right)\cdot\left(\frac{1}{2}\right)$ 

(6) 7

6. <del>P(C=1)=1</del>

P(M(C,J) = P(C(M).P(J/M)-P(M) = 0.99.0.98.0.01 P(c).P(J) = 0.99.0.98.0.01

= 0.04851