$P(X) = P(X|C) \times P(c) + P(X|C) + P(X)$  = 0.9 + P(c) + 0.2 + P(X) P(c) = P(c | P, S) + P(P) + P(S) + P(S) + P(C | P, S) + P(P) + P(S) + P(C | P, S) + P(P) + P(S) + P(C | P, S) + P(P) + P(S) + P(C | P, S) + P(P) + P(S) = 0.0163 = 0.0163  $= 0.0163 = 0.0163 + 0.2 \times 0.9883$ 

 $p(x) = 0.9 \times 0.01163+0.2 \times 0.98837$ = 0.208141