3.9 (b) 
$$P(s, A = bod)$$
,  $W = clear)$ 
 $= P(W = clear) \cdot P(s|W = clear) \cdot P(A = bod|S)$ 

Then normalize over  $S$ , we can give  $P(S|A = bod)$   $W = clear)$ 

4. 1  $P(-e_{1-s}, -m, -b) = P(-e) P(-s|-m, -e) P(-m) P(-b|-m)$ 
 $= 0.0 \times 0.1 \times 0.9 \times 0.9 : 0.45 / 4$ 

4. 2  $P(tb) = \sum_{m} P(tb|m) P(m) = 0.1 \times 1.0 + 0.9 \times 0.1 = 0.19$ 

4. 3 Join  $M$ , we get  $P(B,M)$   $tm + b = 0.1 + m - b = 0.0 + m - b = 0.01 + m + b = 0.01 + m - b = 0.01 + m + b = 0.0$