

b)

I) KA KBKCKOKE. Since we are having five variables, the total # of states would depend on the multiplication principle, which would be Kakokokoko

II) $(K_A-1)+K_A(K_B-1)+K_A(K_C-1)+K_C(K_O-1)+K_AK_BK_D(K_B-1)$. For each factor, say P(A), we only need K_A-1 parameters to model since all parameters of P(A) should sum up to 1. For P(B|A), we would model (K_B-1) parameters over all possible K_A states, which leads to $K_A(K_B-1)$ in total. The rest $K_A(K_B-1)$ is total.

C) The perist The perist peris