

Figure 20.12: (a): A generic mixture model for data $v^{1:N}$. Each z^n indicates the cluster of each datapoint. θ is a set of parameters and $z^n = k$ selects parameter θ^k for datapoint v^n . (b): For a potentially large number of clusters one way to control complexity is to constrain the joint indicator distribution. (c): Plate notation of (b).