6.3.

S_1 : (present, absent, present, absent ...)

S_2 : (absent, present, absent, present ...)

6.4.

(a) If you think the model is well-formed and constructive then the signal of S_1, S_2 will consist of n consecutive present signals, $n \geq 1$, following by an infinite tail of absent signals.

(b) If you don't add additional transition, such as absent/absent on some states, then the model can be ill-formed, and unconstructive.

6.5

Skip.