## Probabilistic Temporal Reasoning Review (AIMA 14)

## Artificial Intelligence

1.	You are creating discrete-time model for a system that changes approximately every minute. What is a good value for the time interval, $\Delta$ , between time slices?
2.	What is the general equation for the Markov assumption in a first-order Markov transition model over the variables $\boldsymbol{X}$
3.	What is the general equation for for the Markov assumption in a second-order Markov transition model over the variables $\boldsymbol{X}$
4.	Describe the four basic inference tasks in probabilistic temporal models.

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5. Give an example of each kind of basic probabilistic temporal inference task.