

CE956: Statistical Learning
Department of Computer Engineering
Sharif University of Technology
Spring 2019: Room CE204, Sat. & Mon.: 13:30-15:00

Quiz 03 (35 Points) – (March-16-2019)

Non-Parametric Models: (5 points each)

1. Briefly explain what is the Dirichlet Distribution and Dirichlet Process.
2. Why Dirichlet Process is important in the context of Bayesian Nonparametric Models.
3. What is the difference between CRP and IBP?
4. What is the relation between distributions over the binary matrices, CRP and IBP?
5. Why we need to perform sampling for inference purposes in the context of Bayesian Nonparametric Models?
6. Briefly explain what is Gibbs Distribution.
7. Briefly but concisely explain what MCMC is?