Name:

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Quiz 5
December 2, 2013

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1. **(1 pt)** What is the prior distribution commonly used for covariance matrices?

2. **(1 pt)** We are using DIC to compare two models. Do I prefer the model with the lower or higher value of DIC?

3. **(8 pts)** Suppose that I have fit a model to a set of data. I would like to be sure that my model adequately captures the bimodality I see in my data set. Describe a graphical and/or numerical posterior predictive checking methodology that I could use.