**Statistical Genomics (545)**

Spring 2021

**Quiz**

Open book

Due on April 23, 2021, 3:10pm

First name:

Last Name:

Pre-recorded lecture: Bayesian Tools

**Instruction**: Highlight the best answer **(ONLY** **ONE**) for each question. Email this file to TA (Zhou Tang, email: zhou.tang@wsu.edu) with subject of StaGen545QuizzesYYYYMMDD

1. Which method restricts a portion of markers with effects of zero.

A. None of them

B. Bayesian B

C. Bayesian A

D. Ridge regression

2. Marker effects can be treated as normal distributed variables with mean of zero and variance of Vi for ith marker. When Vi are all different, the prediction method is called \_\_\_.

A. Bayes Cpi

B. Bayesian A

C. Bayesian B

D. Ridge regression

3. After the 'Burn in' period of a Bayesian method, non zero effects were observed for all markers. Which method was used?

A. Bayes LASSO

B. Bayesian B

C. Bayes Cpi

D. Bayesian A

4. Which method does not have a 'Burn in' period?

A. Bayes Cpi

B. Gibbs sampling

C. rrBLUP

D. MCMC