

Answering sheet Assignment Bayesian Econometrics (in Finance) 2022-23

Student information

Name:

Student Number:

FEM21026 Bayesian Econometrics:

FEM21032 Bayesian Econometrics in Finance:

Details Data

Number of the dataset used for solving the exercise:

Details Prior

What is the lowerbound of your prior for β_1 ?:

Details Coding

Which computer language did you use?:

Details MCMC sampler:

How many simulations in total did you do (including burn-in)? :

How many burn-in simulations did you use ? :

What is your thin value? :

Posterior Results:

Fill in the percentiles of the posterior distribution in the next table based on your MCMC output:

| parameter | 10% percentile | median | 90% percentile |
|------------|----------------|--------|----------------|
| β_0 | | | |
| β_1 | | | |
| β_2 | | | |
| β_3 | | | |
| σ^2 | | | |

Posterior Probability:

Compute the posterior mean of $\ln \sigma^2$ using the MCMC output

$$E[\ln \sigma^2 | y]$$

My answer is

.