

# 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  $\beta_1$ ?:

## 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 |
|------------|----------------|--------|----------------|
| $\beta_0$  |                |        |                |
| $\beta_1$  |                |        |                |
| $\beta_2$  |                |        |                |
| $\beta_3$  |                |        |                |
| $\sigma^2$ |                |        |                |

## Posterior Probability:

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

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

My answer is .