

INSTITUTE AND FACULTY OF ACTUARIES

April 2019

Subject CS1B – Actuarial Statistics

Pre-work Material

INSTRUCTIONS TO THE CANDIDATES

You are provided with this advance information to enable you to read, understand and action in your own time, and not under examination conditions.

Install R version 3.5.2 and R Studio version 1.1.463 – For further information how to install R and R Studio, please see “Getting started with R” on the website.

<https://www.actuaries.org.uk/studying/curriculum-2019/actuarial-statistics>

Install the required packages – base*, stats, utils, graphics

* this package is installed by default during the R installation – there are no additional install requirements for this package.

Along with this instruction sheet you will find two data files available to you for use in the examination

CS1waves.Rdata

Cables_dataset.csv

These data files need to be loaded into R by first saving them onto the computer you are going to be using in the examination. Once you have completed this then you need to load the data into R ready for use during the examination.

Further guidance on how to do this can be found in “A Guide to CS1 and CS2 Examinations” on the website

<https://www.actuaries.org.uk/studying/curriculum-2019/actuarial-statistics>

To test you have successfully loaded the required R Packages run the following codes in order within R:

Code:

```
x = c(1:10)
mean(x)          checks base package
sd(x)            checks stats package
plot(x)          checks graphics package
combn(x, 10)     checks utils package
```

If these are completed with no error the four packages are successfully installed.

If you encounter any issues, please contact the Examinations Team on +44 (0) 1865 268255

END OF PRE-WORK MATERIAL