|  |  |  |  |
| --- | --- | --- | --- |
| 1 |  | |  |
| To the right is a screenshot of RStudio. What is the main purpose of the part of the screen labelled (A)? | Rscreenshot | |
| (a) | Here you can read the documentation of R commands from R’s built-in help. | |  |
| (b) | Here you can see the output of R commands. | |  |
| (c) | Here you can type R commands and save them to an R script file. You can also send commands from here to the console to run them. | |  |
| (d) | Here you can see a list of all objects in your environment. | |  |

**Practice RAT for Week 02, Monday**

**Answers at the end**

|  |  |
| --- | --- |
| 2 | R has a built-in data frame airquality (i.e. we don’t need to import these data from a CSV file, hooray!) with daily air quality measurements in New York. Which R commands can we use to find out more statistics about the data in airquality? |
|  |
| (a) | names(airquality) |
| (b) | ?airquality |
| (c) | str(airquality) |
| (d) | All of the above. |

|  |  |
| --- | --- |
| 3 | Here is the top of the spreadsheet view that we can see when we run View(airquality).    How can we obtain a subset that only contains the columns Temp, Month and Day, but keeps all rows of the original data frame? |
|  |
| (a) | airquality[3:5, ] |
| (b) | airquality[, 3:5] |
| (c) | airquality[4:6, ] |
| (d) | airquality[, 4:6] |

|  |  |
| --- | --- |
| 4 | A pharmaceutical company conducts an experiment in which a subject takes 100 mg of a substance orally. The researchers measure how many minutes it takes for half of the substance to exit the bloodstream. What kind of variable is the company studying? |
|  |
| (a) | Quantitative variable |
| (b) | Categorical variable |
| (c) | Identifier variable |
| (d) | Ordinal variable |

**Anwers:**

**1c.** See video tutorials.

**2d.** The ? operator opens a help page for functions and built-in data frames. (The ? operator won’t work for data frames imported from CSV files.)

**3d.** Column indices must be behind the comma. Note that R starts counting indices from 1, unlike many other programming languages that start with an index 0.

**4a.** See textbook.