

9. 1 point

Which command returns the total flow through the Nile from 1950 to 1960?

☐ `sum(Nile[time(Nile) >= 1950 | time(Nile) <= 1960])`

☐ `sum(Nile[1950:1960])`

☐ `sum(Nile[time(Nile) >= 1950 & time(Nile) <= 1960])`

☐ `sum(Nile[time(Nile) < 1950 & time(Nile) > 1960])`

☒ No answer

Correct Answer: `sum(Nile[time(Nile) >= 1950 & time(Nile) <= 1960])`

10. 1 point

The assignment of `z` below is an example of vectorisation.

`z <- c(log(1)) * c(1,1,1,1,1)`

`z`

☐ True

☐ False

☒ No answer

Correct Answer: True

11. 1 point

Nile is a time series with 100 records from 1871 to 1970. The value of the last element of the built-in data set Nile is 740. Which R commands will return this value?

☐ `time(Nile)[200]`

☒ `Nile[length(Nile)]`

Missed Option - Incorrect

☐ `Nile[100]`

Missed Option - Incorrect

☒ `Nile[which(Nile==740)]`

Missed Option - Incorrect

☒ No answer

12. 1 point

If `v <- c(1, 2, 3)`, what is `v[-2]`?

☐ 2

☐ 3

☐ 4

☐ -2

☐ 1 3

☒ No answer

Correct Answer: 1 3

13. 1 point

Which commands retrieve the seventh, and the ninth to thirteenth element of the named data set `islands`?

☐ `names(islands[7,9:13])`

☒ `islands[c(7,9:13)]`

Missed Option - Incorrect

☒ `islands[c(7,9,10,11,12,13)]`

Missed Option - Incorrect

☐ `which(islands[7,9:13])`

☒ No answer

14. 1 point

What does the following command return?

`time(Nile)[length(Nile)]`

☐ The index of the last element of Nile

☐ The length of the time series Nile

☐ The last value of Nile

☐ The year of the last observation recorded in Nile

☒ No answer

Correct Answer: The year of the last observation recorded in Nile

15. 1 point

Vector indices can always be retrieved either with the accessor operator `$` or with the index operator `[]`

☐ True

☐ False

☒ No answer

Correct Answer: False

16. 1 point

If `foo` is a vector, which command returns the index of those elements that are 0

☐ `which(foo == 0)`

☐ `which(foo == 0)`

☐ `foo[foo==0]`

☐ `foo[foo = 0]`

☒ No answer

Correct Answer: `which(foo == 0)`

17. 1 point

The result of `mean(1,2,3)` is not the average of the values 1,2,3

☐ True

☐ False

☒ No answer

Correct Answer: True

18. 1 point

How can you select all positive elements from an (atomic) vector `foo`?

☒ `foo[foo > 0]`

Missed Option - Incorrect

☒ `foo[foo_pos] where foo_pos <- c(foo > 0)`

Missed Option - Incorrect

☐ `foo[foo > 0]`

☐ `foo[foo > 0]`

☒ No answer