Week 4 Quiz

Quiz, 10 questions

1 poin	t
1. What i	is produced at the end of this snippet of R code?
1 2	set.seed(1) rpois(5, 2)
	A vector with the numbers 1, 1, 2, 4, 1
	A vector with the numbers 1, 4, 1, 1, 5
\bigcirc	It is impossible to tell because the result is random
\bigcirc	A vector with the numbers 3.3, 2.5, 0.5, 1.1, 1.7
1 poin	t
2. What l variab	R function can be used to generate standard Normal random
O	qnorm
	rnorm
	pnorm
\bigcirc	dnorm



3.

When simulating data, why is using the set.seed() function important? Select all that apply.

	It can be used to specify which random number generating algorithm R should use, ensuring consistency and reproducibility.
	It can be used to generate non-uniform random numbers.
	It ensures that the sequence of random numbers is truly random.
	It ensures that the random numbers generated are within specified boundaries.
1 point	

4

Which function can be used to evaluate the inverse cumulative distribution function for the Poisson distribution?

\bigcirc	dpois
\bigcirc	ppois
	qpois

rpois



5.

What does the following code do?

dbinom

	-
1 2 3 4	set.seed(10) x <- rep(0:1, each = 5) e <- rnorm(10, 0, 20) y <- 0.5 + 2 * x + e
\bigcirc	Generate random exponentially distributed data
\bigcirc	Generate uniformly distributed random data
	Generate data from a Normal linear model
\bigcirc	Generate data from a Poisson generalized linear model
1 poin 6. What I variab	R function can be used to generate Binomial random
\bigcirc	rbinom
	pbinom
\bigcirc	qbinom

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point
7. What aspect of the R runtime does the profiler keep track of when
an R expression is evaluated?
the working directory
the package search list
the global environment
the function call stack
1 point 8. Consider the following R code
<pre>1 library(datasets) 2 Rprof() 3 fit <- lm(y ~ x1 + x2)</pre>
4 Rprof(NULL)
(Assume that y, x1, and x2 are present in the workspace.) Without running the code, what percentage of the run time is spent in the 'lm' function, based on the 'by.total' method of normalization shown in 'summaryRprof()'?
It is not possible to tell

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50%

100%

23%

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	9. When using 'system.time()', what is the user time?
	It is the time spent by the CPU evaluating an expression
	It is the time spent by the CPU waiting for other tasks to finish
	It is the "wall-clock" time it takes to evaluate an expression
	O It is a measure of network latency
l t	1 point 10. If a computer has more than one available processor and R is able to take advantage of that, then which of the following is true when using 'system.time()'?
	elapsed time is 0
	user time is 0
	user time is always smaller than elapsed time
	elapsed time may be smaller than user time
-	Upgrade to submit
	'