R Package and devtools

TOTAL POINTS 10

1.	Wh	nich of the following are good reasons to build an R Package?	1 point	
	✓	R functions are only available for use in other programming languages (Python, C++) if they're included in a package.		
	✓	Users need to understand how your R functions work in order to use them and providing users with a package allows them to read your R code.		
	✓	R Packages require documentation and the package structure allows you to distribute functions and documentation together.		
	✓	An R package is a good method for distributing functions to users.		
2.	Wh	nich of the following files and folders are <u>required</u> in an R package?	1 point	
	✓	The R/ directory.		
	✓	A NAMESPACE file.		
	✓	An inst/ directory.		
	✓	The man/ directory.		
	✓	A DESCRIPTION file.		
	✓	A README.md file.		
3.		nich of the following files and subdirectories will be included in the initial package ectory if you create a new package using the `create` function from `devtools`?	1 point	
	✓	`R/` su <mark>bdirectory</mark>		
	✓	NAME <mark>SPACE</mark>		

~	README.md				
✓	R project file (package name plus a `.Rproj` extension)				
~	README.Rmd				
~	`data/` subdirectory				
~	.git <mark>ignore</mark>				
~	`man/` subdirectory				
✓	`vignettes/` subdirectory				
~	.Rbu <mark>ildignore</mark>				
✓	DESCR <mark>IPTION</mark>				
Which of the following functions from the `devtools` package are you likely to use often, rather than just once per package, when building a package?					
		1 point			
		1 point			
	en, rather than just once per package, when building a package?	1 point			
	en, rather than just once per package, when building a package? `load_all`	1 point			
	en, rather than just once per package, when building a package? `load_all` `create`	1 point			
	en, rather than just once per package, when building a package? `load_all` `create` `use_readme_rmd`	1 point			
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ofte ✓	en, rather than just once per package, when building a package? 'load_all' 'create' 'use_readme_rmd' 'document' nat is the purpose of the DESCRIPTION file in a package?	1 point			
ofte ✓	en, rather than just once per package, when building a package? 'load_all' 'create' 'use_readme_rmd' 'document' nat is the purpose of the DESCRIPTION file in a package? It describes some of the R project options for the package. It provides metadata on the package, including the package name, version number	1 point			

4.

5.

6.		n of the following statements correctly describes how R functions should be ed with the package directory?	1 point
		hey should all be defined in separate R scripts (one per function) in the `R/` ubdirectory.	
	_ T	hey should all be defined in a single R script, saved as the NAMESPACE file.	
		hey should all be defined in either a single or multiple R scripts in the `R/` ubdirectory.	
	_ T	hey should all be defined in separate R scripts in the `man/` subdirectory.	
7.	What	does the ::: operator do?	1 point
	(It	allows access to unexported functions in a package	
	It	hides functions in a package to make them inaccessible to the user	
	O It	exports functions from a package for others to use	
	O It	prevents users from modifying the code in a function	
8.	How i	s attaching a package namespace different from loading a namespace?	1 point
		ttaching a namespace makes functions visible only to the package that attached ne namespace	
		oading a namespace places a package's functions in the global environment	
	O A	ttaching a namespace places the namespace on the search list	
		oading a namespace makes unexported functions in a package visible to the user	
9.	For pa	ackages that require C code, what should be installed on your system?	1 point
	_ A	perl interpreter	
	_ A	Fortran compiler	
	A	C compiler from Xcode, Rtools, or equivalent package	
	_ T	he appropriate header files	

to indicate the packages whose functions will be used in your package	
to indicate the version of R that is required for your package	
to provide a brief description of what your package does	
to indicate the license under which your package is made available	

1 point



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10. What is the purpose of the Imports field in the DESCRIPTION file?