

## Theme 4 Quiz 4

TOTAL POINTS 5

١.	What is a wrapper function?	1 point
	an inhomogeneity correction and registration function	
	a function that calls other functions to create an image processing pipeline	
	onne of these options	
	a function which "wraps" an image around itself	
2.	The R function preprocess_mri_within (part of the R package extrantsr) performs which image pre-processing steps?	1 point
	all of these options	
	registration	
	skull stripping	
	inhomogeneity correction	
3.	Given the following R code from the lecture:	1 point
	<pre>files = c("113-01-MPRAGE.nii.gz",</pre>	
	which file will the images be registered to?	
	113-01-MPRAGE.nii.gz	
	113-01-FLAIR.nii.gz	
	113-01-PD.nii.gz	
	113-01-T2w.nii.gz	
1.	Given the following R code from the lecture:	1 point
	<pre>files = c("113-01-MPRAGE.nii.gz",</pre>	
	what should be changed if you wish to do N3 correct rather than N4 correct?  Change correction = "N3"	
	to correction = "N4"	
	on changes are necessary as N3 is already being used	
	change skull_strip = FALSE to skull_strip = TRUE	
	change correction = "N4" to correction = "N3"	

1 2 3	<pre>masked_imgs = lapply(outfiles, fslmask,</pre>		
	the function lapply is always used with the function fslmask		
	the code is incorrect and we should be using an apply statement instead		
0			
is a	the function lapply is an apply statement for lists; the object outfiles list		
$\circ$	the code is incorrect and we should be using a mapply statement instead		
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