Your name:	Total:	/ 2
Quiz no. 3 – data preprocessing and GLM 1) Briefly state why each of the following fMRI data preproc	assing stans is done 12 mg	anahl
a) Motion correction	essing steps is done 15 pts	. eacn ₁
b) Slice-time correction		
c) Spatial normalization		
d) Smoothing		

c) Spatial normalization
d) Smoothing
2) For (a) and (b) each, first state a preprocessing step that can potentially negatively affect the data, and then describe how [3 pts. each]
a) Preprocessing step:
Disadvantage:
b) Preprocessing step:

Disadvantage:

Quiz no. 3 – data preprocessing and GLM

- 3a) Circle <u>True</u> or <u>False</u>: The same hemodynamic response function (HRF) shape is assumed for every brain region and subject when setting up a general linear model (GLM) [1 pt.]
- b) Briefly state how brain activation in a GLM analysis is quantified for a particular condition—in other words, how is the actual MRI signal data evaluated against the standard HRF? [3 pts.]